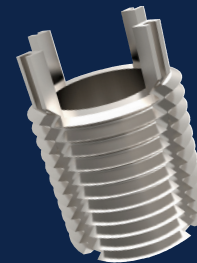
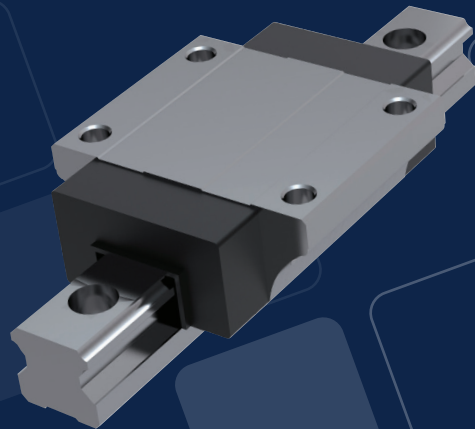




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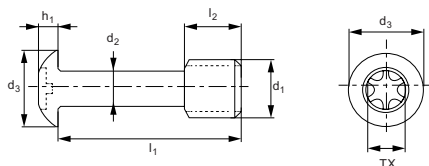
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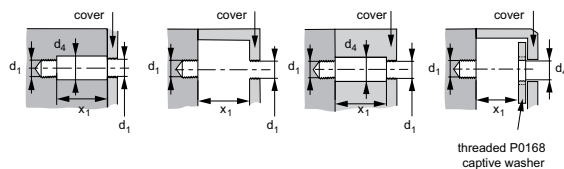
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- 03** Sealing Screws
- 06** Shoulder Screws
- 07** Standard Screws, Vented Screws, Thrust Screws, Thumb Screws
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- 12** Linear Guideways, Linear Rail Sets
- 13** Telescopic Slides, Precision Gears, Clevis Joints & Clips
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- 22** Ball & Socket Joints
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- 24** Lifting Eye Bolts, Draw Latches
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application examples :-
counterbore length 'x₁' should be > l₂



threaded P0168
captive washer

P0149.050-020-A2

Captive Screws Button TX Drive

303 STAINLESS STEEL

WAS £3.36 NOW £1.33

Material

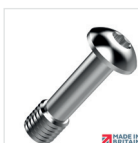
Stainless steel (AISI 303, 1.4305). Tensile strength 550 N/mm². Proof stress min. 190 N/mm², austenitic stainless steel. Also available with blackened finish (P0149.B2), in marine grade stainless steel (AISI 316 series; P0149.A4), in titanium (P0149.Ti), or in other materials such as steel, brass, aluminium etc. on request.

Technical Notes

Used to comply with the Machinery Directive 2006/42/EC. Generally to ISO 7380-1. Often used with our captive washers (P0168) or retaining flanges (P0169. A2 - for sheet metal applications). The use of our captive washers should be considered when fitted in panels with unthreaded holes.

Important Notes

These screws have a reduced diameter shank and should not be tightened to the recommended torque for an equivalent machine screw of size d1.

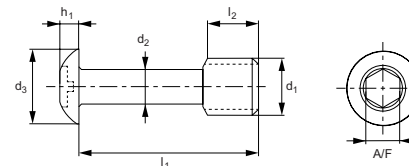


CAPTIVE SCREWS

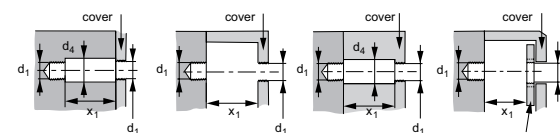
Order No.	d ₁	l ₁	d ₂	d ₃	d ₄	h ₁	l ₂	TX size
P0149.050-020-A2	M 5	20	3.7	9.5	5.5	3.70	7.5	TX-25



VIEW ONLINE



application examples :-
counterbore length 'x₁' should be > l₂



threaded P0168
captive washer

P0151.050-025-A2

Captive Screws Button Head

303 STAINLESS STEEL

WAS £3.38 NOW £1.33

Material

Stainless steel (AISI 303, 1.4305). Tensile strength 550 N/mm². Proof stress min. 190 N/mm², austenitic stainless steel. Also available on request in steel (anodised, black oxide or zinc plated), stainless steel (AISI 316, 1.440), brass, aluminium etc.

Technical Notes

Used to comply with the Machinery Directive 2006/42/EC. Generally to ISO 7380-1. Often used with our captive washers (P0168) or retaining flanges (P0169. A2 - for sheet metal applications). The use of our captive washers should be considered when fitted in panels with unthreaded holes.

Important Notes

Please note that these screws have a reduced diameter shank and should not be tightened to the recommended torque for an equivalent machine screw of size d1.

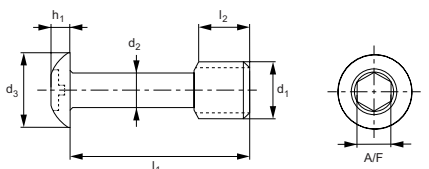


CAPTIVE SCREWS

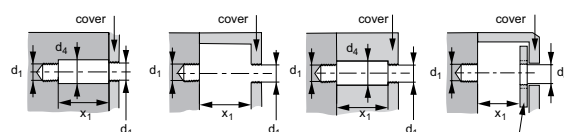
Order No.	d ₁	l ₁	d ₂	d ₃	d ₄	h ₁	l ₂	A/F
P0151.050-025-A2	M 5	25	3.7	9.5	5.5	2.63	7.5	3.0



VIEW ONLINE



application examples :-
counterbore length 'x₁' should be > l₂



threaded P0168
captive washer

P0151.050-030-A2

Captive Screws Button Head

303 STAINLESS STEEL

WAS £3.45 NOW £1.39

Material

Stainless steel (AISI 303, 1.4305). Tensile strength 550 N/mm². Proof stress min. 190 N/mm², austenitic stainless steel. Also available on request in steel (anodised, black oxide or zinc plated), stainless steel (AISI 316, 1.440), brass, aluminium etc.

Technical Notes

Used to comply with the Machinery Directive 2006/42/EC. Generally to ISO 7380-1. Often used with our captive washers (P0168) or retaining flanges (P0169. A2 - for sheet metal applications). The use of our captive washers should be considered when fitted in panels with unthreaded holes.

Important Notes

Please note that these screws have a reduced diameter shank and should not be tightened to the recommended torque for an equivalent machine screw of size d1.

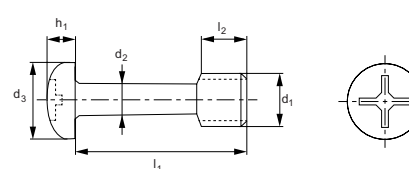


CAPTIVE SCREWS

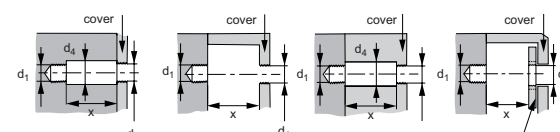
Order No.	d ₁	l ₁	d ₂	d ₃	d ₄	h ₁	l ₂	A/F
P0151.050-030-A2	M 5	30	3.7	9.5	5.5	2.63	7.5	3.0



VIEW ONLINE



application examples :-
counterbore length 'x' should be > l₂



threaded P0168
captive washer

P0157.030-030-A2

Captive Screws Pan Phillips Drive

303 STAINLESS STEEL

WAS £3.27 NOW £1.70

Material

Stainless steel (AISI 303, 1.4305). Tensile strength 550 N/mm². Proof stress min. 190 N/mm², austenitic stainless steel. Also available on request in steel (anodised, black oxide or zinc plated), stainless steel (AISI 316, 1.440), brass, aluminium etc.

Technical Notes

Used to comply with the Machinery Directive 2006/42/EC. Generally to ISO 14583. Often used with our captive washers (P0168) or retaining flanges (P0169 - for sheet metal applications). The use of our captive washers should be considered when fitted in panels with unthreaded holes.

Important Notes

Please note that these screws have a reduced diameter shank and should not be tightened to the recommended torque for an equivalent machine screw of size d1.



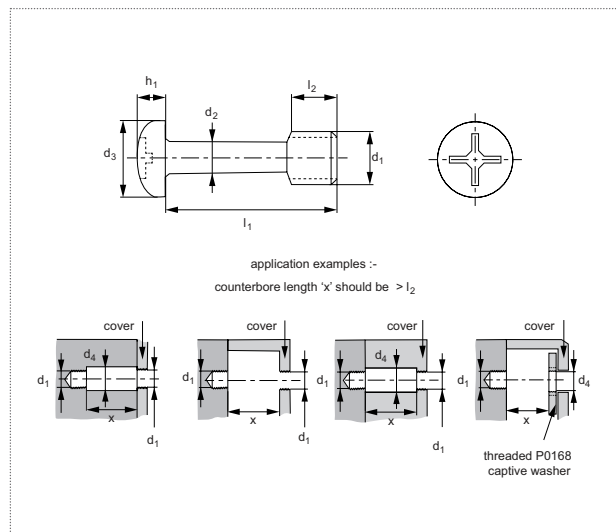
CAPTIVE SCREWS

Order No.	d ₁	l ₁	d ₂	d ₃	d ₄	h ₁	l ₂	Drive #
P0157.030-030-A2	M 3	30	2.0	5.6	4.5	2.4	4.5	1



VIEW ONLINE





Order No.	d ₁	l ₁	d ₂	d ₃	d ₄	h ₁	l ₂	Drive #
P0157.060-020-A2	M 6	20 ±0.25	4.2 ±0.12	12.0 max.	8.5 max.	4.7 max.	7.5 ±0.25	3



P0157.060-020-A2

Captive Screws Pan Phillips Drive

303 STAINLESS STEEL

WAS £3.45 NOW £0.80

Material

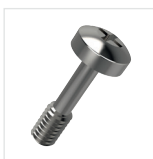
Stainless steel (AISI 303, 1.4305). Tensile strength 550 N/mm². Proof stress min. 190 N/mm², austenitic stainless steel. Also available on request in steel (anodised, black oxide or zinc plated), stainless steel (AISI 316, 1.440), brass, aluminium etc.

Technical Notes

Used to comply with the Machinery Directive 2006/42/EC. Generally to ISO 14583. Often used with our captive washers (P0168) or retaining flanges (P0169 - for sheet metal applications). The use of our captive washers should be considered when fitted in panels with unthreaded holes.

Important Notes

Please note that these screws have a reduced diameter shank and should not be tightened to the recommended torque for an equivalent machine screw of size d1.



CAPTIVE SCREWS

P0168.120-A2

Threaded Captive Washer

303 STAINLESS STEEL

WAS £3.39 NOW £1.45

Material

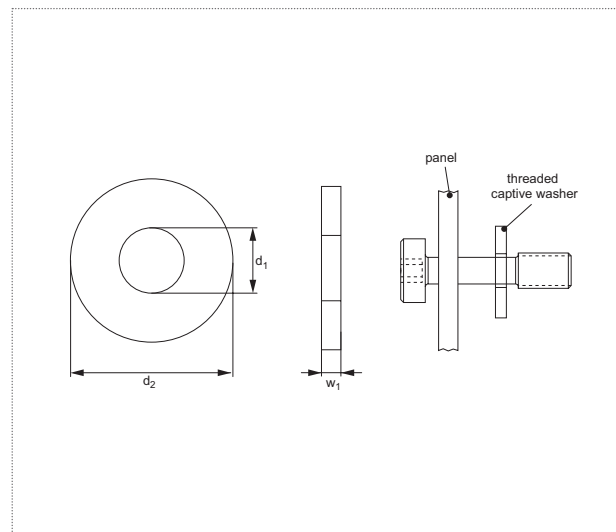
Stainless steel (AISI 303, 1.4305 and AISI 316, 1.440). Also available in steel (zinc-plated or black-oxide) and titanium (grade 2 and grade 5).

Technical Notes

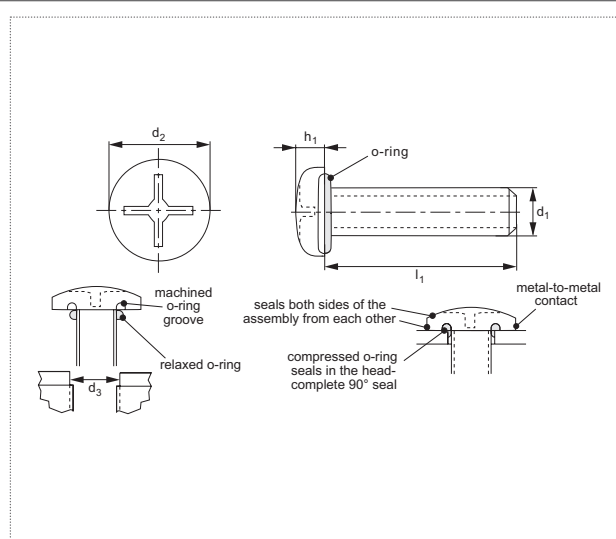
Captive washers have a very shallow thread on the i/d. This enables them to be screwed on, and once past the threads they do not separate from the captive screw or bolt.

Tips

Captive washers are primarily used to retain captive screws in panels which have unthreaded holes. The panel (onto which the screw needs to be retained) is placed onto the captive screw, the threaded washer is then threaded onto the screw, past the threaded section and the screw is therefore captive to the panel.



Order No.	d ₁	w ₁	d ₂	Material
P0168.120-A2	M 12	3.5 ±0.05	24	SS 303



Order No.	d ₁	l ₁	h ₁	d ₂	d ₃	Drive
P0170.030-010-SI	M 3	10	2.4 max.	6.0 max.	3.60 ±0.05	PH-1



P0170.030-010-SI

Phillips Pan Seal Screw Silicone O Ring

303 STAINLESS STEEL

WAS £2.87 NOW £0.82

Material

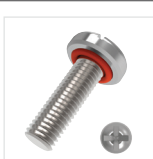
Stainless steel (AISI 303 1.4305 tensile strength 550 N/mm²), with silicone „O“ ring as standard. Other thread lengths, materials and „O“ ring materials available on request.

Technical Notes

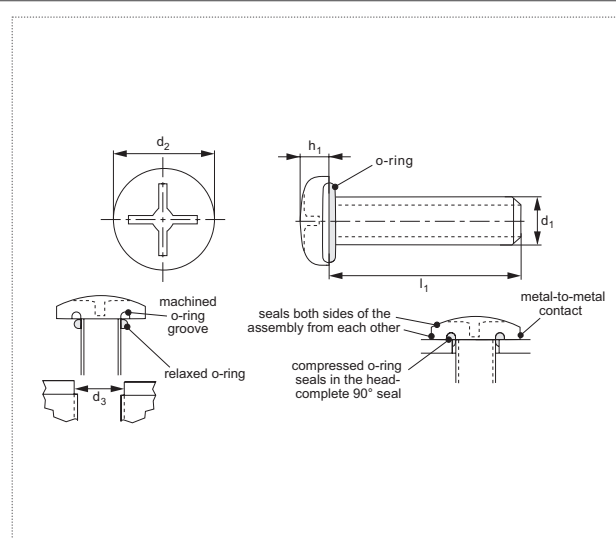
Seals substances in and contaminants out, screws generally as DIN 7985 H, ISO 7045. Max temperature range: -100°C to +260°C, pressure range - up to 410 bar (6000 psi). Re-usable, also available (on request) with thread-locking.

Tips

Clearance holes recommended for maximum sealing performance (see dimensions below). Clearance hole depth 2-3 x thread pitch, threads are metric coarse pitch.



SEALING SCREWS



Order No.	d ₁	l ₁	h ₁	d ₂	d ₃	Drive
P0170.030-020-SI	M 3	20	2.4 max.	6.0 max.	3.60 ±0.05	PH-1



P0170.030-020-SI

Phillips Pan Seal Screw Silicone O Ring

303 STAINLESS STEEL

WAS £3.14 NOW £0.82

Material

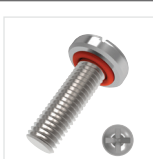
Stainless steel (AISI 303 1.4305 tensile strength 550 N/mm²), with silicone „O“ ring as standard. Other thread lengths, materials and „O“ ring materials available on request.

Technical Notes

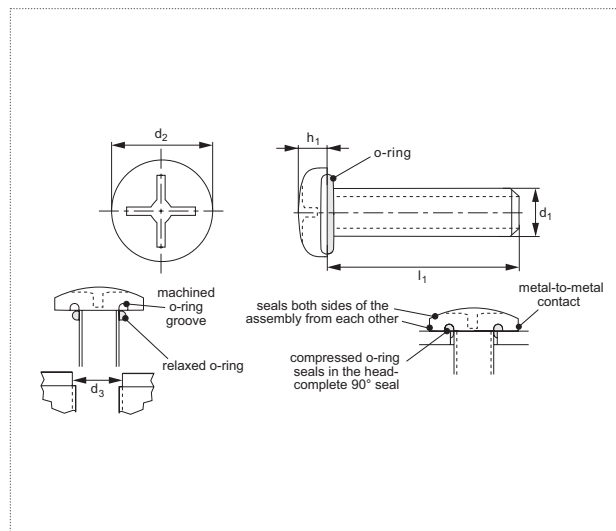
Seals substances in and contaminants out, screws generally as DIN 7985 H, ISO 7045. Max temperature range: -100°C to +260°C, pressure range - up to 410 bar (6000 psi). Re-usable, also available (on request) with thread-locking.

Tips

Clearance holes recommended for maximum sealing performance (see dimensions below). Clearance hole depth 2-3 x thread pitch, threads are metric coarse pitch.



SEALING SCREWS



P0170.030-030-SI

Phillips Pan Seal Screw Silicone O Ring

303 STAINLESS STEEL

WAS £4.17 NOW £0.82

Material

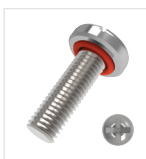
Stainless steel (AISI 303 1.4305 tensile strength 550 N/mm²), with silicone „O“ ring as standard. Other thread lengths, materials and „O“ ring materials available on request.

Technical Notes

Seals substances in and contaminants out, screws generally as DIN 7985 H, ISO 7045. Max temperature range: -100°C to +260°C, pressure range - up to 410 bar (6000 psi). Re-usable, also available (on request) with thread-locking.

Tips

Clearance holes recommended for maximum sealing performance (see dimensions below). Clearance hole depth 2-3 x thread pitch, threads are metric coarse pitch.

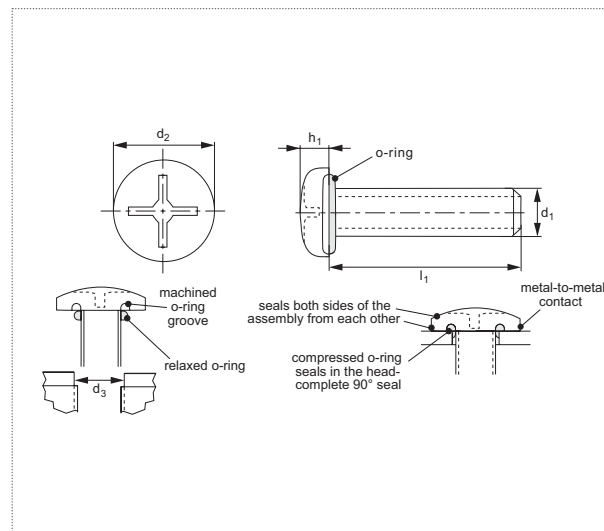


SEALING SCREWS

Order No.	d ₁	l ₁	h ₁ max.	d ₂ max.	d ₃ ±0.05	Drive
P0170.030-030-SI	M 3	30	2.4	6.0	3.60	PH-1



VIEW ONLINE



P0170.030-040-SI

Phillips Pan Seal Screw Silicone O Ring

303 STAINLESS STEEL

WAS £3.10 NOW £0.82

Material

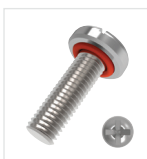
Stainless steel (AISI 303 1.4305 tensile strength 550 N/mm²), with silicone „O“ ring as standard. Other thread lengths, materials and „O“ ring materials available on request.

Technical Notes

Seals substances in and contaminants out, screws generally as DIN 7985 H, ISO 7045. Max temperature range: -100°C to +260°C, pressure range - up to 410 bar (6000 psi). Re-usable, also available (on request) with thread-locking.

Tips

Clearance holes recommended for maximum sealing performance (see dimensions below). Clearance hole depth 2-3 x thread pitch, threads are metric coarse pitch.

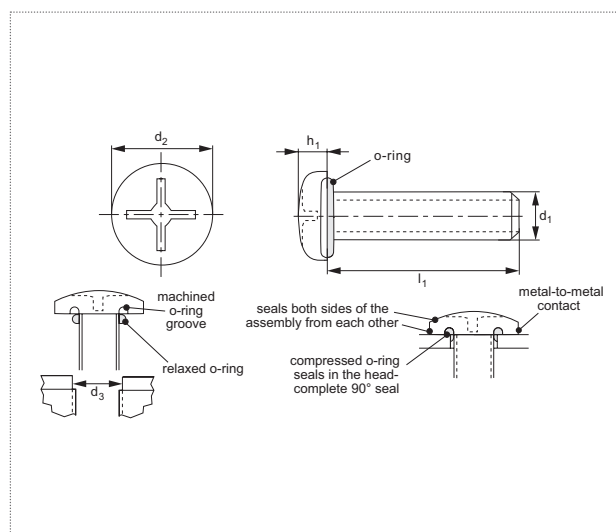


SEALING SCREWS

Order No.	d ₁	l ₁	h ₁ max.	d ₂ max.	d ₃ ±0.05	Drive
P0170.030-040-SI	M 3	40	2.4	6.0	3.60	PH-1



VIEW ONLINE



P0170.030-050-SI

Phillips Pan Seal Screw Silicone O Ring

303 STAINLESS STEEL

WAS £0.42 NOW £0.25

Material

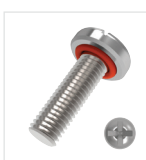
Stainless steel (AISI 303 1.4305 tensile strength 550 N/mm²), with silicone „O“ ring as standard. Other thread lengths, materials and „O“ ring materials available on request.

Technical Notes

Seals substances in and contaminants out, screws generally as DIN 7985 H, ISO 7045. Max temperature range: -100°C to +260°C, pressure range - up to 410 bar (6000 psi). Re-usable, also available (on request) with thread-locking.

Tips

Clearance holes recommended for maximum sealing performance (see dimensions below). Clearance hole depth 2-3 x thread pitch, threads are metric coarse pitch.

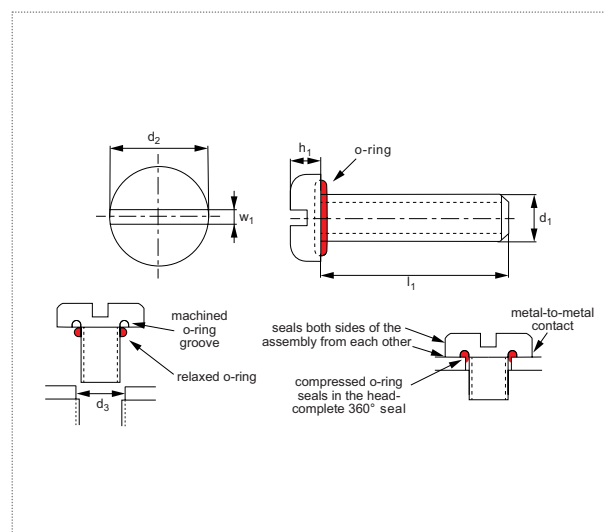


SEALING SCREWS

Order No.	d ₁	l ₁	h ₁ max.	d ₂ max.	d ₃ ±0.05	Drive
P0170.030-050-SI	M 3	50	2.4	6.0	3.60	PH-1



ENQUIRE HERE



P0171.030-006-EP

Pan Head Slot Seal Screw EPDM O Ring

303 STAINLESS STEEL

WAS £3.23 NOW £1.12

Material

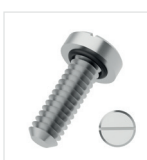
Stainless steel (AISI 303 1.4305 tensile strength 550 N/mm²), with EPDM „O“ ring. Other thread lengths, materials and „O“ ring materials available on request.

Technical Notes

Screws generally as DIN 85 A, ISO 1580, seals substances in and contaminants out. Re-usable. Clearance holes recommended for maximum sealing. Max temperature range: -100°C to +260°C, pressure range - up to 410 bar (6000 psi). Also available (on request) with threadlocking.

Tips

Clearance holes recommended for maximum sealing performance (see dimensions below). Clearance hole depth 2-3 x thread pitch, threads are metric coarse pitch.



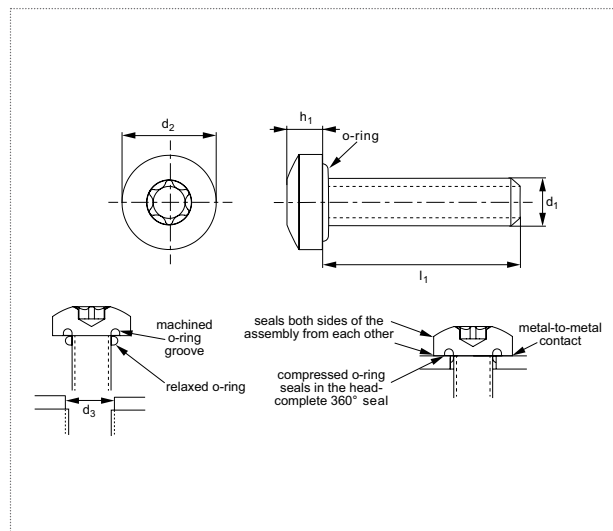
SEALING SCREWS

Order No.	d ₁	l ₁	h ₁ max.	w ₁	d ₂ max.	d ₃ ±0.05
P0171.030-006-EP	M 3	6	1.8	1.0	6.0	3.6



ENQUIRE HERE





P0172.050-012-SI
Pan Head Torx Drive Seal
Screw Silicone O Ring

303 STAINLESS STEEL

WAS **£5.42** NOW **£0.10**

Material

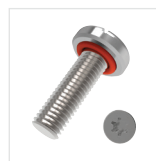
Stainless steel (AISI 303 1.4305 tensile strength 550 N/mm²), with silicone „O“ ring as standard. Other thread lengths, materials and „O“ ring materials available on request.

Technical Notes

Seals substances in and contaminants out. Screws generally as DIN 7985 H, ISO 7045. Re-useable. Max temperature range: -100°C to +260°C. Pressure range - up to 410 bar (6000 psi). Also available (on request) with threadlocking.

Tips

Clearance holes recommended for maximum sealing performance (see dimensions below). Clearance hole depth 2-3 x thread pitch. Threads are metric coarse pitch.

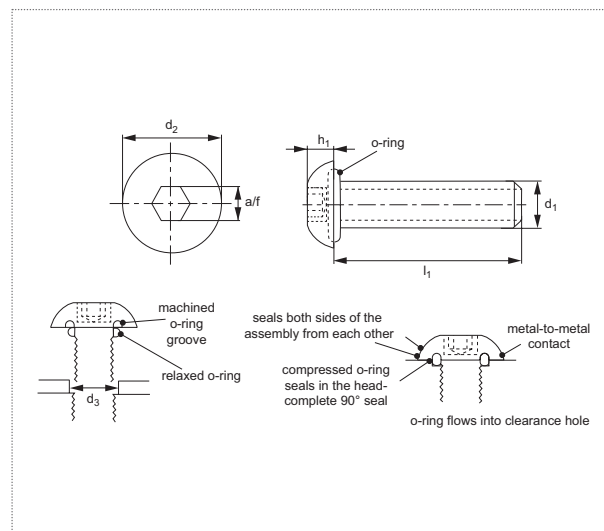


SEALING SCREWS

Order No.	d ₁	l ₁	h ₁ max.	d ₂ max.	d ₃ ±0.05	Drive
P0172.050-012-SI	M 5	12	3.7	10.0	5.6	TX-25



VIEW ONLINE



P0174.040-012-2S
Seal Screw Button Head
Silicone O Ring

303 STAINLESS STEEL

WAS **£5.08** NOW **£2.92**

Material

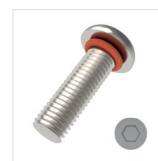
Stainless steel (AISI 303 1.4305 tensile strength 550 N/mm² or AISI 316 1.440 tensile strength 480 N/mm²), with silicone „O“ ring as standard. Other thread lengths, materials and „O“ ring materials available on request.

Technical Notes

Screws generally as ISO 7380, seals substances in and contaminants out. Re-useable. Clearance holes recommended for maximum sealing. Max temperature range: -100°C to +260°C, pressure range - up to 410 bar (6000 psi). Also available (on request) with threadlocking.

Tips

Clearance holes recommended for maximum sealing performance (see dimensions below). Clearance hole depth 2-3 x thread pitch, threads are metric coarse pitch.

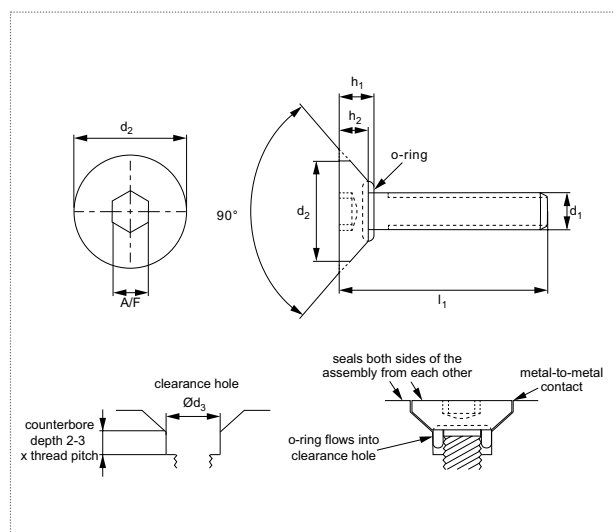


SEALING SCREWS

Order No.	d ₁	l ₁	h ₁ max.	d ₂ max.	A/F	d ₃ ±0.05	Material
P0174.040-012-2S	M 4	12	2.2	7.6	2.5	4.5	A2 s/s



VIEW ONLINE



P0175.030-010-NI
Seal Screw C'sunk Head
Nitrile O Ring

303 STAINLESS STEEL

WAS **£4.68** NOW **£0.73**

Material

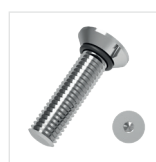
Stainless steel (AISI 303 1.4305 tensile strength 550 N/mm²), with nitrile „O“ ring as standard. Other thread lengths, materials and „O“ ring materials available on request.

Technical Notes

Screws generally as DIN 7991, ISO 10642, seals substances in and contaminants out. Re-useable Clearance holes recommended for maximum sealing. Max temperature range: -100°C to +260°C, pressure range - up to 410 bar (6000 psi). Also available (on request) with thread-locking.

Tips

Clearance holes recommended for maximum sealing performance (see dimensions below). Clearance hole depth 2-3 x thread pitch, threads are metric coarse pitch. h1 dimension is the intersection of the c'sunk and shank.

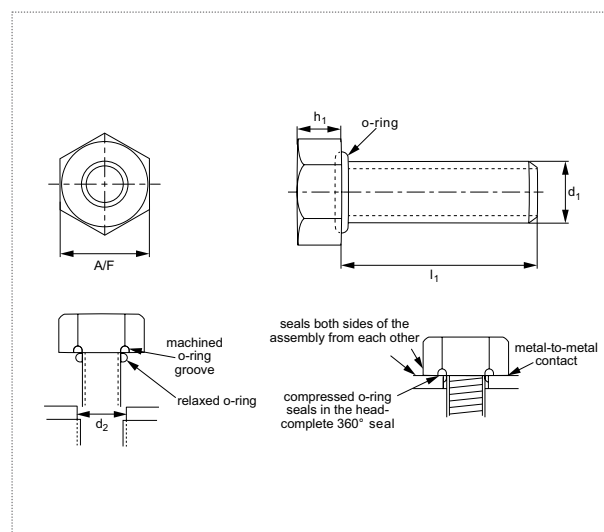


SEALING SCREWS

Order No.	d ₁	l ₁	h ₁	h ₂	d ₂	d ₃ ±0.05	A/F
P0175.030-010-NI	M 3	10	1.86	1.1	5.8	3.6	2.0



ENQUIRE HERE



P0176.060-012-2S
Integral Seal Bolt
Silicone O ring

303 STAINLESS STEEL

WAS **£5.60** NOW **£1.29**

Material

Stainless steel (AISI 303 1.4305 tensile strength 550 N/mm² or AISI 316 1.440 tensile strength 480 N/mm²), with silicone „O“ ring as standard. Other thread lengths, materials and „O“ ring materials available on request.

Technical Notes

Clearance holes recommended for maximum sealing, seals substances in and contaminants out. Max temperature range: -100°C to +260°C, pressure range - up to 410 bar (6000 psi). Re-useable, also available (on request) with thread-locking.

Tips

Clearance holes recommended for maximum sealing performance (see dimensions below). Clearance hole depth 2-3 x thread pitch, threads are metric coarse pitch.



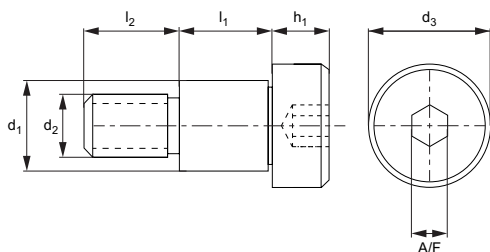
SEALING SCREWS

Order No.	d ₁	l ₁	A/F	h ₁ max.	d ₂ ±0.05	Material
P0176.060-012-2S	M 6	12	10.0	4.2	6.80	A2 s/s



VIEW ONLINE





P0130.060-070-A2 Shoulder Socket Screw Cap Head

303 STAINLESS STEEL

WAS £10.00 NOW £7.04

Material

Stainless steel (AISI 303, 1.4305). Tensile strength 550 N/mm². Proof stress min. 190 N/mm², austenitic stainless steel.

Technical Notes

303 series stainless steel provides good resistance to corrosion. It is mildly magnetic. For torx drive versions please see P0145. Special lengths and diameters produced to drawings.

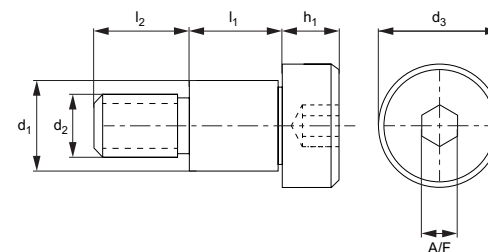


SHOULDER SCREWS

Order No.	d ₁	l ₁	d ₂	d ₃	l ₂	h ₁	A/F
P0130.060-070-A2	+0 -0.025	+0 -0.025	M 5	10	6	5	3.0

Automotion
AN ESSENTIA COMPANY

VIEW ONLINE



P0130.120-080-T5 Shoulder Screw Cap Head

TITANIUM

WAS £36.05 NOW £19.84

Material

Titanium alloy (ATSM B348 grade 5; Ti6Al4V). Tensile strength 895-1100 N/mm², yield strength 820 N/mm², hardness 334HB/36Rc.

Technical Notes

Titanium has a lower density than stainless steel and excellent corrosion resistance properties. Titanium has a high strength:weight ratio - per unit weight titanium is 45% stronger than stainless steel. Ideal for use in lightweight applications in the automobile, aerospace, medical and robotic industries. Grade 5 titanium alloy is stronger than grade 2 (pure) titanium. Withstands temperatures of up to 400 °C.

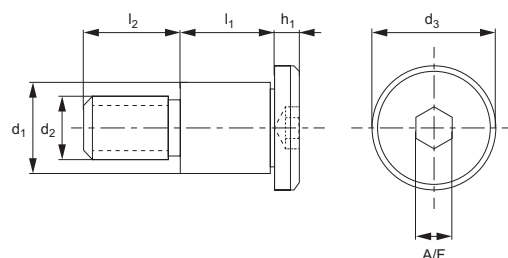


SHOULDER SCREWS

Order No.	d ₁	l ₁	d ₂	d ₃	l ₂	h ₁	A/F
P0130.120-080-T5	+0.000 -0.025	+0.05 -0.00	M 10	20	16	8	6.0

Automotion
AN ESSENTIA COMPANY

VIEW ONLINE



P0134.050-020-A4 Shoulder Screw Ultra Low Hex Drive

316 STAINLESS STEEL

WAS £5.40 NOW £1.50

Material

Stainless steel (AISI 316, 1.440). Tensile strength 480 N/mm². Proof stress min. 200 N/mm², austenitic stainless steel.

Technical Notes

These very low profile socket shoulder screws have a head height approximately 1/3 that of normal shoulder screws (P0130). 316 Series stainless have excellent corrosion resistance. Stainless steel suitable for marine and other applications.

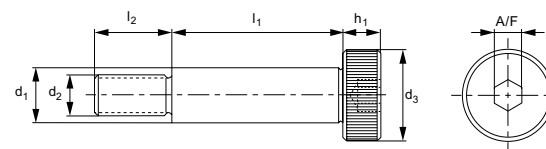


SHOULDER SCREWS

Order No.	d ₁	l ₁	d ₂	d ₃	l ₂	h ₁	A/F
P0134.050-020-A4	+0 -0.025	+0 -0.025	M 4	9	5	1.3	2.5

Automotion
AN ESSENTIA COMPANY

VIEW ONLINE



P0137.060-040-A2 Shoulder Screw Hex Socket Head

303 STAINLESS STEEL

WAS £8.93 NOW £1.45

Material

Stainless steel (A2, AISI 303). Tensile strength 580 N/mm², yield strength 200 N/mm².

Technical Notes

To ISO 7379. These are generally larger sizes than the other stainless shoulder screws (P0130 and P0132). Straight knurling on screw head. Mildly magnetic.

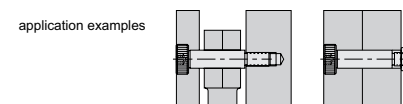


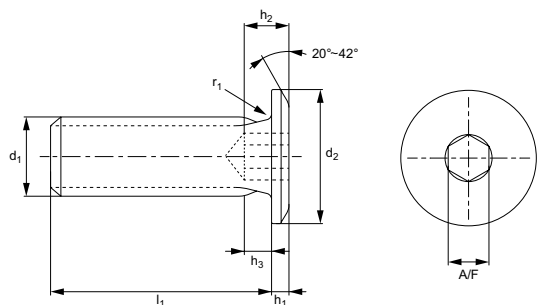
SHOULDER SCREWS

Order No.	d ₁	l ₁	d ₂	d ₃	l ₂	h ₁	A/F
P0137.060-040-A2	tol. f9	+0.25	M 5	10	9.5	4.5	3.0

Automotion
AN ESSENTIA COMPANY

VIEW ONLINE





P0208.050-010-A2 Cap Screw Ultra Low Head Hex Drive

303 STAINLESS STEEL

WAS £3.46 NOW £0.61

Material
Stainless steel (AISI 303, 1.4305). Tensile strength ~350N/mm2 (except for M2 ~200N/mm2).

Technical Notes
The ultra low head is extremely low profile. These screws do not require a countersunk location hole. Most suitable for machine and equipment applications with minimal clearance.

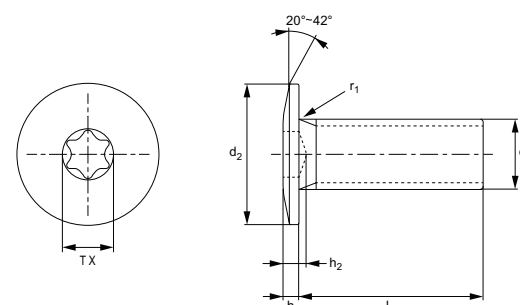


STANDARD SCREWS

Order No.	d ₁	l ₁	d ₂	h ₁	h ₂ max.	h ₃ max.	r ₁ min.	A/F	Torque to max. Nm
P0208.050-010-A2	M 5	10	9	1.0	3.0	1.8	0.20	2.5	2.20



VIEW ONLINE



P0209.030-005-A2 Cap Screw TX Ultra Low Head

303 STAINLESS STEEL

WAS £3.14 NOW £0.44

Material
Stainless steel (AISI 303, 1.4305). Tensile strength ~350N/mm2 (except for M2 ~200N/mm2).

Technical Notes
Ultra low head is extremely low profile. They do not require a countersunk location hole. Most suitable for machine and equipment applications with minimal clearance.

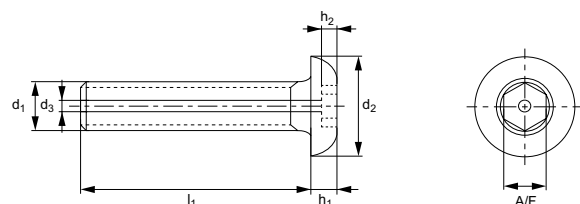


STANDARD SCREWS

Order No.	d ₁	l ₁	d ₂	h ₁	h ₂ max.	r ₁ max.	TX size	Torque max. Nm
P0209.030-005-A2	M 3	5	7	0.8	2.0	0.4	TX-6	0.63



VIEW ONLINE



P0094.060-008-A2 Vented Screw Button Head Hex Drive

304 STAINLESS STEEL

WAS £3.43 NOW £1.45

Material
Stainless steel (AISI 304, 1.4301), strength class 60. Ultrasonically cleaned.

Technical Notes
To ISO 7380 (with central vent). Other sizes available on request.

Tips
These products help eliminate virtual leaks from high vacuum (HV and UHV) systems, thereby improving pump-down times. Trapped gases at the bottom of a tapped hole are able to escape via the central vent down the middle of the screw.

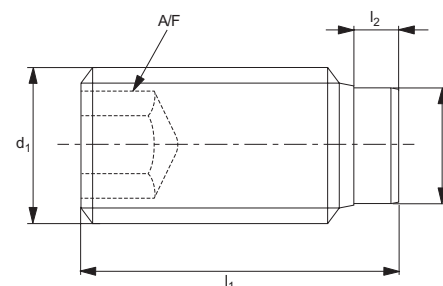


VENTED SCREWS

Order No.	d ₁	l ₁	d ₂	d ₃	h ₁	h ₂	A/F
Code	M 6	8	10.5	1.6	3.3	2.1	4



VIEW ONLINE



P0120.030-004 Thrust Screw Brass Pad

303 STAINLESS STEEL

WAS £8.79 NOW £5.08

Material
Screw: stainless steel 1.4305 (AISI 303). Pad: brass.

Technical Notes
Brass pad pressed in. These thrust screws can be used for gentle clamping or pressing of threaded spindles, axles, shafts or surface treated parts.



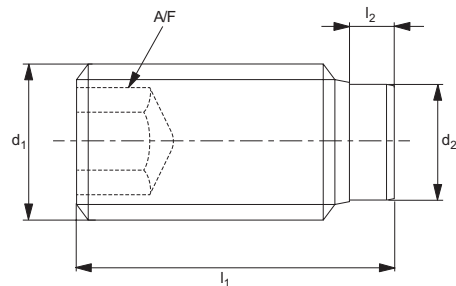
THRUST SCREWS

Order No.	Material	Type	d ₁	l ₁	l ₂	d ₂	A/F	Weight g
P0120.030-004	Stainless	Brass Pad	M 3	5.0	1.0	1.5	1.5	0.2



VIEW ONLINE





P0120.030-010

Thrust Screw Brass Pad

STAINLESS STEEL

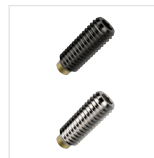
WAS £9.01 NOW £4.98

Material

Screw: stainless steel 1.4305 (AISI 303). Pad: brass.

Technical Notes

Brass pad pressed in. These thrust screws can be used for gentle clamping or pressing of threaded spindles, axles, shafts or surface treated parts.

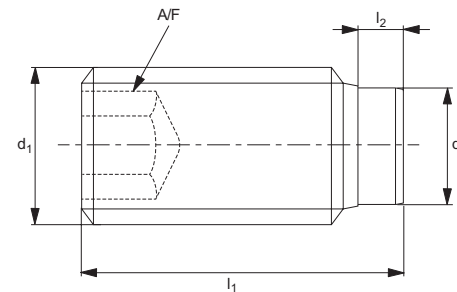


THRUST SCREWS

Order No.	Material	Type	d ₁	l ₁	l ₂	d ₂	A/F	Weight g
P0120.030-010	Stainless	Brass Pad	M 3	10.0	1.0	1.5	1.5	0.5



VIEW ONLINE



P0124.030-006

Thrust Screw Thermo Pad

303 STAINLESS STEEL

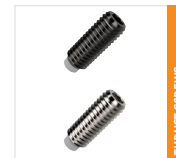
WAS £5.70 NOW £2.14

Material

Screw: stainless steel 1.4305 (AISI 303). Pad: thermoplastic POM, white.

Technical Notes

Thermoplastic bolt pressed in. For gentle clamping or pressing of thread spindles, axles, shafts and surface treated parts.

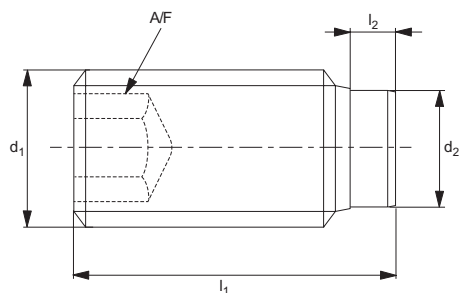


THRUST SCREWS

Order No.	Material	Type	d ₁	l ₁	l ₂	d ₂	A/F	Weight g
P0124.030-006	Stainless	Thermo Pad	M 3	5.8	0.8	1.5	1.5	0.3



VIEW ONLINE



P0124.040-007

Thrust Screw Thermo Pad

303 STAINLESS STEEL

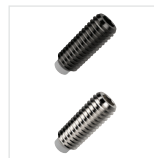
WAS £4.94 NOW £2.11

Material

Screw: stainless steel 1.4305 (AISI 303). Pad: thermoplastic POM, white.

Technical Notes

Thermoplastic bolt pressed in. For gentle clamping or pressing of thread spindles, axles, shafts and surface treated parts.

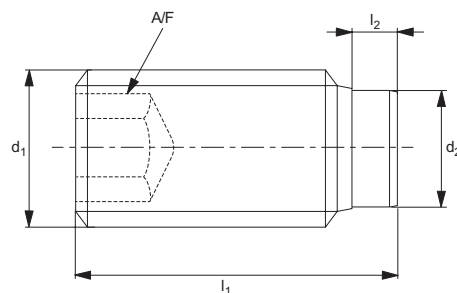


THRUST SCREWS

Order No.	Material	Type	d ₁	l ₁	l ₂	d ₂	A/F	Weight g
P0124.040-007	Stainless	Thermo Pad	M 4	7.0	1.0	2.0	2.0	0.3



VIEW ONLINE



P0124.040-009

Thrust Screw Thermo Pad

303 STAINLESS STEEL

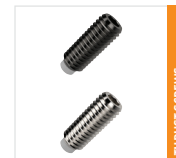
WAS £4.59 NOW £1.99

Material

Screw: stainless steel 1.4305 (AISI 303). Pad: thermoplastic POM, white.

Technical Notes

Thermoplastic bolt pressed in. For gentle clamping or pressing of thread spindles, axles, shafts and surface treated parts.



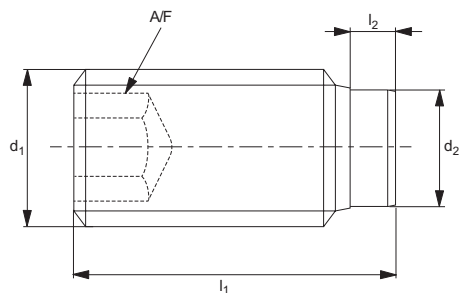
THRUST SCREWS

Order No.	Material	Type	d ₁	l ₁	l ₂	d ₂	A/F	Weight g
P0124.040-009	Stainless	Thermo Pad	M 4	9.0	1.0	2.0	2.0	0.4



VIEW ONLINE





P0124.050-011

Thrust Screw Thermo Pad

303 STAINLESS STEEL

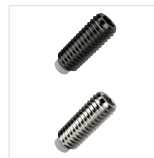
WAS £4.94 NOW £1.60

Material

Screw: stainless steel 1.4305 (AISI 303).
Pad: thermoplastic POM, white.

Technical Notes

Thermoplastic bolt pressed in. For gentle clamping or pressing of thread spindles, axles, shafts and surface treated parts.

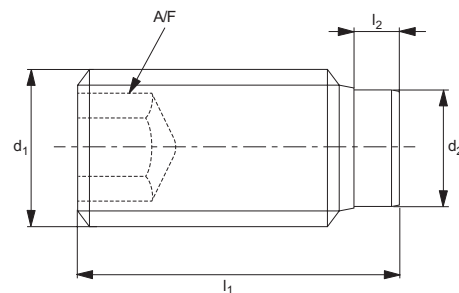


THRUST SCREWS

Order No.	Material	Type	d ₁	l ₁	l ₂	d ₂	A/F	Weight g
P0124.050-011	Stainless	Thermo Pad	M 5	11.0	1.0	3.0	2.5	0.8



VIEW ONLINE



P0124.060-011

Thrust Screw Thermo Pad

303 STAINLESS STEEL

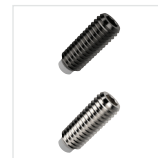
WAS £4.89 NOW £2.19

Material

Screw: stainless steel 1.4305 (AISI 303).
Pad: thermoplastic POM, white.

Technical Notes

Thermoplastic bolt pressed in. For gentle clamping or pressing of thread spindles, axles, shafts and surface treated parts.

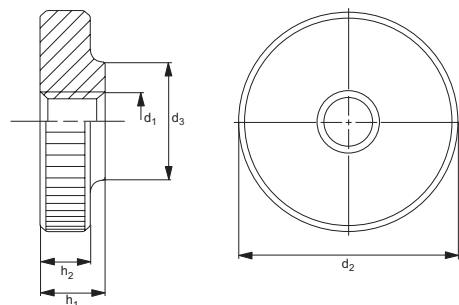


CAPTIVE SCREWS

Order No.	Material	Type	d ₁	l ₁	l ₂	d ₂	A/F	Weight g
P0124.060-011	Stainless	Thermo Pad	M 6	11.3	1.3	3.5	3.0	1.2



VIEW ONLINE



P0406.050-BL

Flat Knurled Nuts

STEEL

WAS £1.09 NOW £0.43

Material

Steel, quality 5, blackened. Turned, visible face, good finish.

Technical Notes

Size M12 not contained in DIN standard.

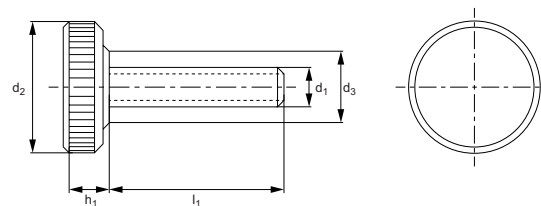


FLAT SCREWS

Order No.	d ₁	d ₂	d ₃	h ₁	h ₂	Weight g
P0406.050-BL	M 5	20	10	5	4.0	9.4



VIEW ONLINE



P0480.050-008-A4

Thumb Head Screw

PLASTIC

WAS £4.18 NOW £1.85

Material

Stainless steel thread (A4, AISI 316), with black plastic head, other colours (red, blue, green, white) available on request.

Technical Notes

Stainless steel A4, AISI 316 is highly resistant to corrosion.



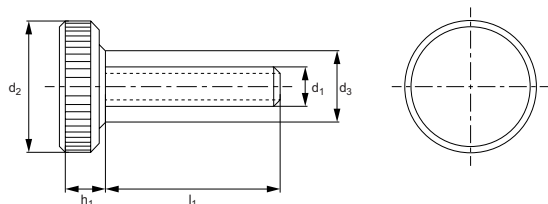
THUMB SCREWS

Order No.	d ₁	l ₁	d ₂	d ₃	h ₁
P0480.050-008-A4	M 5	8	16	12	6



VIEW ONLINE





P0480.050-010-A4 **Thumb Head Screw**

PLASTIC

WAS **£4.18** NOW **£1.00**

Material

Stainless steel thread (A4, AISI 316), with black plastic head, other colours (red, blue, green, white) available on request.

Technical Notes

Stainless steel A4, AISI 316 is highly resistant to corrosion.

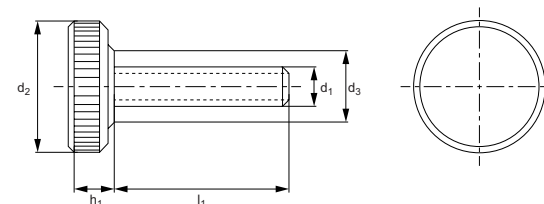


THUMB SCREWS

Order No.	d ₁	l ₁	d ₂	d ₃	h ₁
P0480.050-010-A4	M 5	10	16	12	6



VIEW ONLINE



P0480.050-012-A4 **Thumb Head Screw**

PLASTIC

WAS **£4.18** NOW **£1.00**

Material

Stainless steel thread (A4, AISI 316), with black plastic head, other colours (red, blue, green, white) available on request.

Technical Notes

Stainless steel A4, AISI 316 is highly resistant to corrosion.

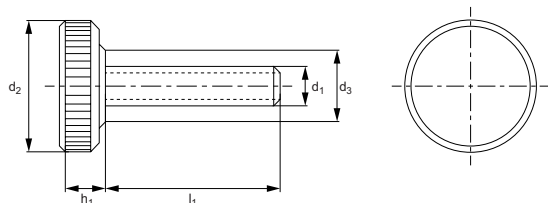


THUMB SCREWS

Order No.	d ₁	l ₁	d ₂	d ₃	h ₁
P0480.050-012-A4	M 5	12	16	12	6



VIEW ONLINE



P0480.050-016-A4 **Thumb Head Screw**

PLASTIC

WAS **£4.18** NOW **£1.00**

Material

Stainless steel thread (A4, AISI 316), with black plastic head, other colours (red, blue, green, white) available on request.

Technical Notes

Stainless steel A4, AISI 316 is highly resistant to corrosion.

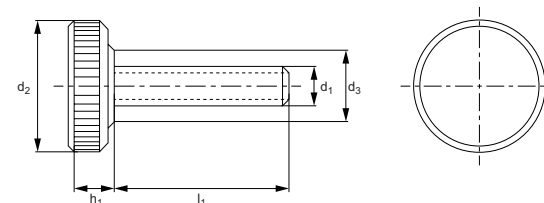


THUMB SCREWS

Order No.	d ₁	l ₁	d ₂	d ₃	h ₁
P0480.050-016-A4	M 5	16	16	12	6



VIEW ONLINE



P0480.050-020-A4 **Thumb Head Screw**

PLASTIC

WAS **£4.18** NOW **£1.00**

Material

Stainless steel thread (A4, AISI 316), with black plastic head, other colours (red, blue, green, white) available on request.

Technical Notes

Stainless steel A4, AISI 316 is highly resistant to corrosion.



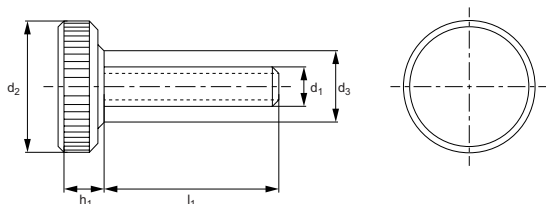
THUMB SCREWS

Order No.	d ₁	l ₁	d ₂	d ₃	h ₁
P0480.050-020-A4	M 5	20	16	12	6



VIEW ONLINE





P0480.050-025-A4 Thumb Head Screw

PLASTIC

WAS £4.18 NOW £1.00

Material

Stainless steel thread (A4, AISI 316), with black plastic head, other colours (red, blue, green, white) available on request.

Technical Notes

Stainless steel A4, AISI 316 is highly resistant to corrosion.

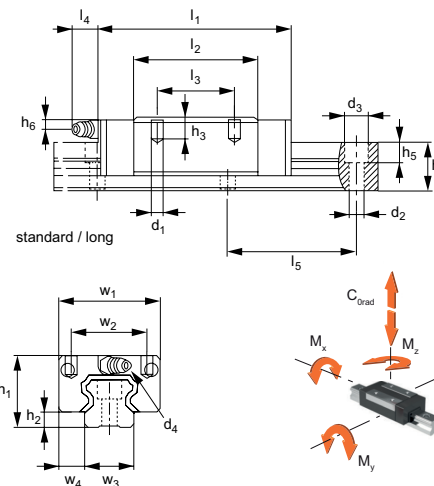


THUMB SCREWS

Order No.	d ₁	l ₁	d ₂	d ₃	h ₁
P0480.050-025-A4	M 5	25	16	12	6



VIEW ONLINE



25CCF-50FT Chain Sprockets

ALUMINIUM

WAS £472.26 NOW £171.63

Material

Polyurethane (yellow). 0.8mm stainless cable.

Technical Notes

Designed to replace standard metal rolling chain systems: - no multiple link joints to bind - lubrication is never required. Easily modified to any length.

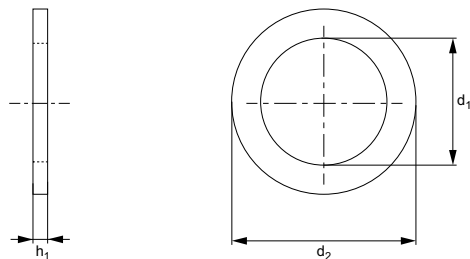


CHAIN

Order No.	Length
25CCF-50FT	50ft



ENQUIRE HERE



P0334.08-14-015 Sealing Ring (PACK 100) DIN 7603 A Copper h=1,5mm

COPPER

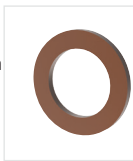
WAS £20.18 NOW £11.24

Material

Copper.

Technical Notes

To DIN 7603 A. Used as sealing ring for pipe connections and blanking plugs.

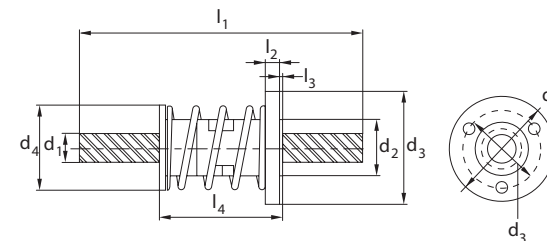


FLAT WASHERS

Order No.	d ₁	d ₂	h ₁	Suitable for DIN 908 thread
P0334.08-14-015	8	14	1.5	M 8 x 1,0



ENQUIRE HERE



L1346.16-10 Lead Screw Anti-Backlash

303 STAINLESS STEEL

WAS £504.29 NOW £348.26

Material

Nut - acetal resin, spring - zinc plated steel. Screw - stainless steel (400 series).

Technical Notes

High precision. Lead error $\pm 0.05\text{mm}/100\text{mm}$. Repeatability 0.01mm. Straightness 0.03mm/100mm. Backlash - zero. Temperature range -45° to $+90^\circ$. The constant force of a pressure spring pushes the two nut halves apart to eliminate backlash. Additional nuts available on request when ordering.



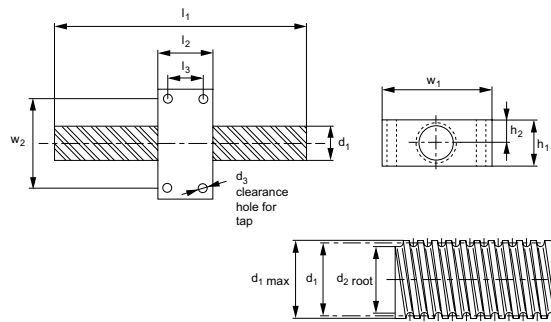
LEAD SCREWS

Order No.	Pitch	Lead	d ₁	d ₂	d ₃	d ₄	d ₅	l ₁	l ₂	l ₃	l ₄	Max. nut load kg	Outside thread	Thread depth
TTMS16ABS10-1000	16	10	M 4	22.5	44.5	26	35	1000	6.5	2	53	75	17.65	1.65



ENQUIRE HERE





L1347.S04-01 Lead Screw

303 STAINLESS STEEL

WAS £131.66 NOW £78.83

Material

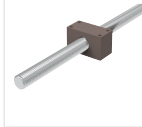
Nut-acetal resin. Anodized aluminium or stainless steel.

Technical Notes

High precision. Lead error $\pm 0.05\text{mm}/100\text{mm}$. Repeatability 0.01mm . Straightness $0.03\text{mm}/100\text{mm}$. Backlash - zero. Temperature range -45° to $+90^\circ$.¹ - relating to D dimension - supplied with one mounting hole at E/2 on each side.² - relating to G - these holes may be slotted to accept a range of sizes. Additional nuts available on request when ordering.

Tips

Aluminium lead screws have shallower thread depths than stainless steel lead screws.

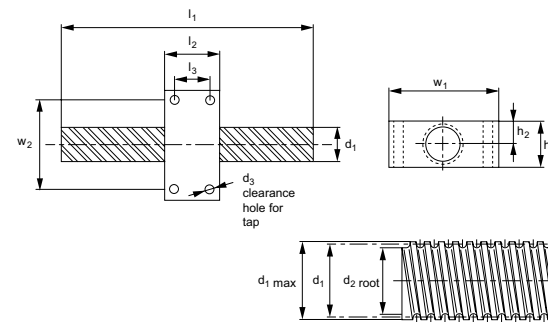


LEAD SCREWS

Order No.	Pitch Ø	Lead	h ₁	w ₁	w ₂	l ₃	l ₂	d ₃	l ₁	Max. nut load Kg.	Outside thread Ø	Thread depth
L1347.S04-01	4	1	12.5	33	25	¹	19	M 3	300	10	4.71	0.71



ENQUIRE HERE



L1347.S20-10 Lead Screw Rectangular Nut

303 STAINLESS STEEL

WAS £219.47 NOW £130.98

Material

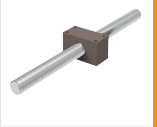
Nut-acetal resin. Anodized aluminium or stainless steel.

Technical Notes

High precision. Lead error $\pm 0.05\text{mm}/100\text{mm}$. Repeatability 0.01mm . Straightness $0.03\text{mm}/100\text{mm}$. Backlash - zero. Temperature range -45° to $+90^\circ$.¹ - relating to D dimension - supplied with one mounting hole at E/2 on each side.² - relating to G - these holes may be slotted to accept a range of sizes. Additional nuts available on request when ordering.

Tips

Aluminium lead screws have shallower thread depths than stainless steel lead screws.

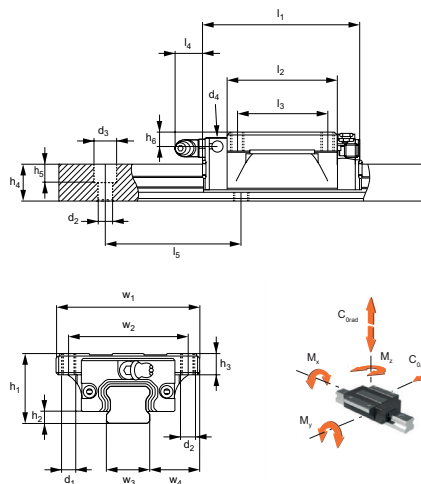


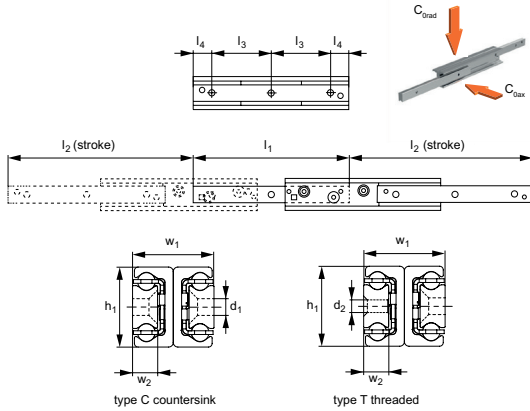
LEAD SCREWS

Order No.	Pitch Ø	Lead	h ₁	w ₁	w ₂	l ₃	l ₂	d ₃	l ₁	Max. nut load Kg.	Outside thread Ø	Thread depth
L1347.S20-10	20	10	35	60	50	20	30	M 5	1000	120	21.60	1.60



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L1986.22T-0530 Fully Telescopic Rail

STEEL

WAS £388.36 NOW £172.18

Material

Cold drawn bearing steel raceways hardened to 60 HRC. Balls - hardened steel. Zinc coating to ISO2081 (excluding raceways). Corrosion resistant coatings available on request.

Technical Notes

These are extremely strong and rigid telescopic slides with high load capacities. C_{0rad} is the load rating for a single telescopic slide. Temperature range: -30°C to +170°C.

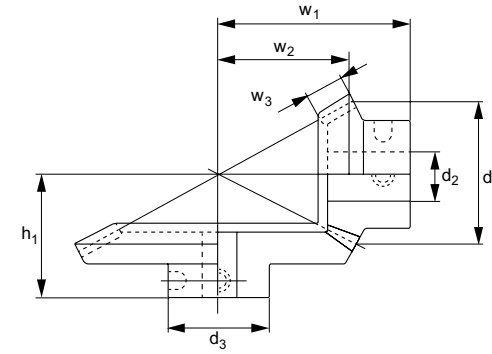


TELESCOPIC SLIDES

Order No.	h_1	l_1	l_2	l_3	l_4	w_1	w_2	For screws d_1 & d_2	No. of holes	Hole type	Load (per rail) C_{0ax} max. N	Load (per rail) C_{0rad} max. N	Weight kg
L1986.22T-0530	22	530	548	80	25	22	6.5	M 4	7	Thread	193	571	1.32

Automation
AN ESSENTA COMPANY

VIEW ONLINE



R2106.001S Module Mitre & Bevel Gear 0.6

STAINLESS STEEL

WAS £126.00 NOW £71.40

Material

Stainless steel (DIN 1,4305) or aluminium (DIN 3,1355).

Technical Notes

20° pressure angle. Quality class DIN 7, AGMA 10.

Tips

Gears will only mesh at right angles when used as sets described in chart.

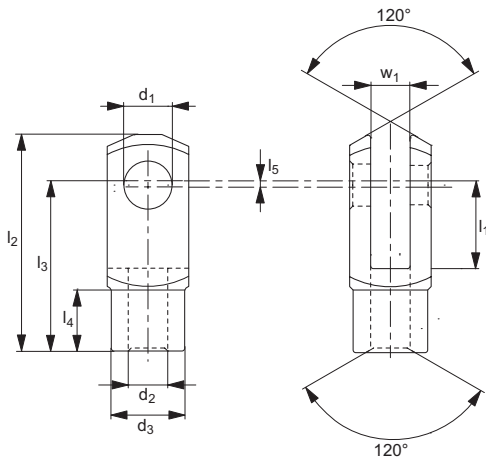


PRECISION GEARS

Order No.	d_1 (gear)	d_1 (pinion)	d_2 tol. H7	d_3	Ratio	No. of teeth (pinion)	No. of teeth (gear)	w_1	w_2 (gear)	w_2 (pinion)	w_3	h_1	Material (pinion)	Material (gear)
R2106.001S	18	18	Ø8	13	1 to 1	30	30	18	8.58	8.58	5	18	Stainless	Stainless

Automation
AN ESSENTA COMPANY

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913/00036 Clevis Joint

303 STAINLESS STEEL

WAS £3.12 NOW £2.04

Material

Steel, zinc plated. 230M07P6 bright to BS 970.

Technical Notes

Fork end.

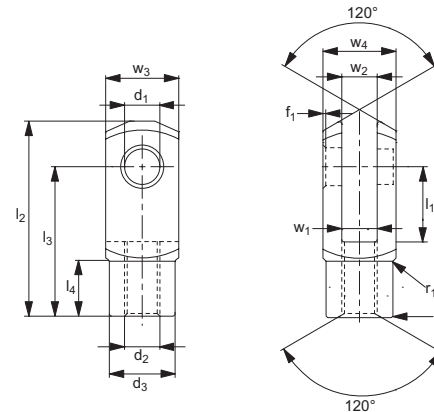


CLEVIS JOINTS & CLIPS

Order No.	d_1 min.	d_1 max.	d_2	d_3	l_1	l_2	l_3	l_4	l_5	w_1 min.	w_1 max.
913/00036	9.55	9.67	M 10x1.5	18	42	74	62	12	3	11.6	12

Automation
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R3385.R102 Clevis Joint Right Hand

SILVER ZINC P. STEEL

WAS £2.93 NOW £0.80

Material

Steel 1.0718 (11SMnPb30k), silver zinc plated.

Technical Notes

M4-M16: DIN 71 752/DIN ISO 8140.
M18-M48: Similar to DIN 71 752/DIN ISO 8140 and according to CETOP standard.



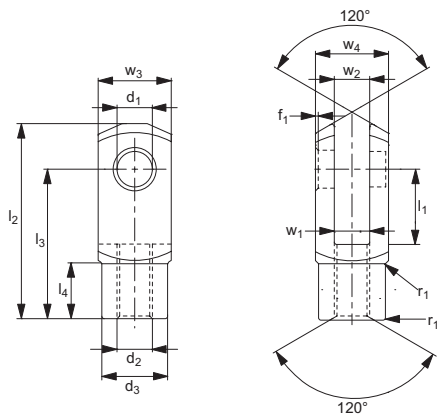
CLEVIS JOINTS & CLIPS

Order No.	Size	Thread hand	Thread type	d_1 tol. H9	l_1 ±0.5	d_2	Weight g	d_3	l_2 ±0.5	l_3	l_4	w_1 tol. B13	w_2	w_3 tol. h11	w_4
R3385.R102	10x20	Right	Coarse	10	20	M 10	74	18	52	40	15.0	10	10	20	20

Automation
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R3385.R105

Clevis Joint Right Hand

SILVER ZINC P. STEEL

WAS £3.70 NOW £0.73

Material

Steel 1.0718 (11SMnPb30k), silver zinc plated.

Technical Notes

M4-M16: DIN 71 752/DIN ISO 8140.
M18-M48: Similar to DIN 71 752/DIN ISO 8140 and according to CETOP standard.

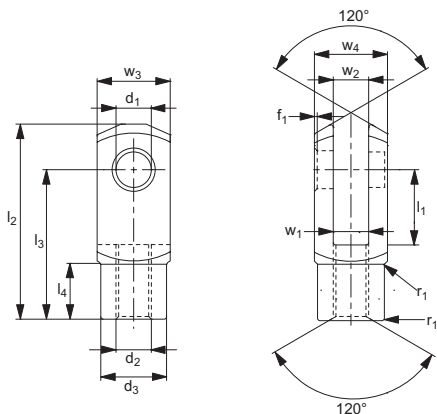


CLEVIS JOINTS & CLIPS

Order No.	Size	Thread hand	Thread type	d ₁ tol. H9	l ₁ ±0.5	d ₂	Weight g	d ₃	l ₂ ±0.5	l ₃	l ₄	w ₁ tol. B13	w ₂	w ₃ tol. h11	w ₄
R3385.R105	10x40	Right	Fine	10	40	M 10x1.25	116	18	72	60	15.0	10	10	20	20



VIEW ONLINE



R3385.R163

Clevis Joint Right Hand

SILVER ZINC P. STEEL

WAS £8.98 NOW £2.57

Material

Steel 1.0718 (11SMnPb30k), silver zinc plated.

Technical Notes

M4-M16: DIN 71 752/DIN ISO 8140.
M18-M48: Similar to DIN 71 752/DIN ISO 8140 and according to CETOP standard.

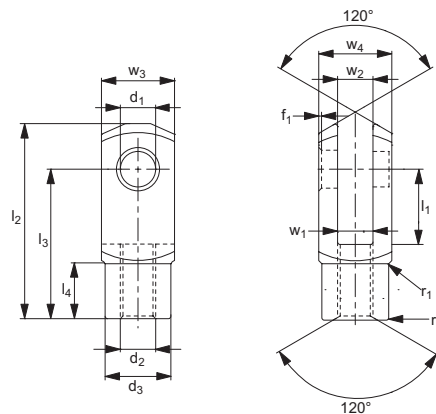


CLEVIS JOINTS & CLIPS

Order No.	Size	Thread hand	Thread type	d ₁ tol. H9	l ₁ ±0.5	d ₂	Weight g	d ₃	l ₂ ±0.5	l ₃	l ₄	w ₁ tol. B13	w ₂	w ₃ tol. h11	w ₄
R3385.R163	16x32	Right	Coarse	16	32	M 16	282	26	83	64	24.0	16	16	32	32



VIEW ONLINE



R3385.R123

Clevis Joint Right Hand

SILVER ZINC P. STEEL

WAS £4.48 NOW £1.02

Material

Steel 1.0718 (11SMnPb30k), silver zinc plated.

Technical Notes

M4-M16: DIN 71 752/DIN ISO 8140.
M18-M48: Similar to DIN 71 752/DIN ISO 8140 and according to CETOP standard.

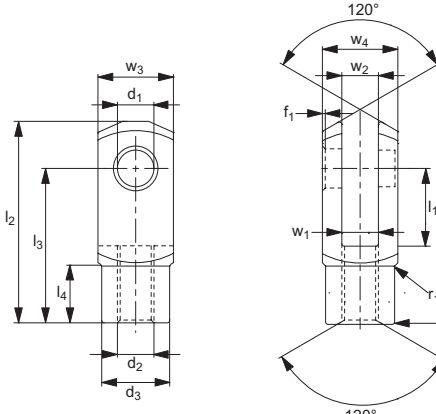


CLEVIS JOINTS & CLIPS

Order No.	Size	Thread hand	Thread type	d ₁ tol. H9	l ₁ ±0.5	d ₂	Weight g	d ₃	l ₂ ±0.5	l ₃	l ₄	w ₁ tol. B13	w ₂	w ₃ tol. h11	w ₄
R3385.R123	12x24	Right	Fine	12	24	M 12x1.25	121	20	62	48	18.0	12	12	24	24



VIEW ONLINE



R3386.L124

Clevis Joint Left Hand

SILVER ZINC P. STEEL

WAS £6.27 NOW £1.19

Material

Steel 1.0718 (11SMnPb30k), silver zinc plated.

Technical Notes

M4-M16: DIN 71 752/DIN ISO 8140.
M18-M48: Similar to DIN 71 752/DIN ISO 8140 and according to CETOP standard.



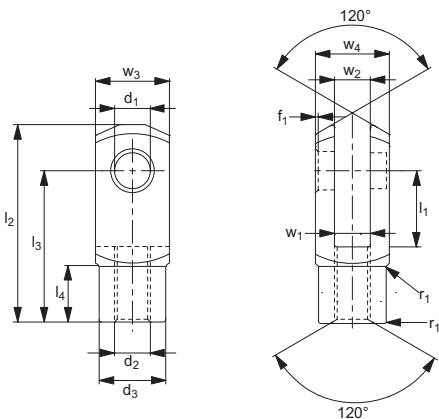
CLEVIS JOINTS & CLIPS

Order No.	Size	Thread hand	Thread type	d ₁ tol. H9	l ₁ ±0.5	d ₂	d ₃	l ₂ ±0.5	l ₃	l ₄	w ₁ tol. B13	w ₂	w ₃ tol. h11	w ₄	Weight g
R3386.L124	12x48	Left	Coarse	12	48	M 12	20	86	72	18.0	12	12	24	24	175



VIEW ONLINE





R3402.R061

Clevis Joint Right Hand

303 STAINLESS STEEL

WAS £5.33 NOW £1.58

Material

Stainless steel (1.4305 AISI 303 X8CrNiS18-9).

Technical Notes

M4-M16: DIN 71 752/DIN ISO 8140. M20-M27: Similar to DIN 71 752 and according to CETOP standard.

Important Notes

For sizes M4-M12, f1 and r1 = 0,5, for sizes M14-M16, f1 and r1 = 1, for size M20, f1=1, r1 = 1,5

For M24, f1 and r1 = 1,5, for M27, f1 = 1,5, r1 = 2, for r1, radius or 45° beveling.

Other Tolerances:-

w4: M4-M16 = +0,3 -0,16 M20-M27 = +0,5 -0,2

w2: Size 4x8-10x20 = B13

Size 10x40-30x54 = +0,7 +0,15

l3: up to size 6x12 = ±0,3

From size 6x24 = ±0,4

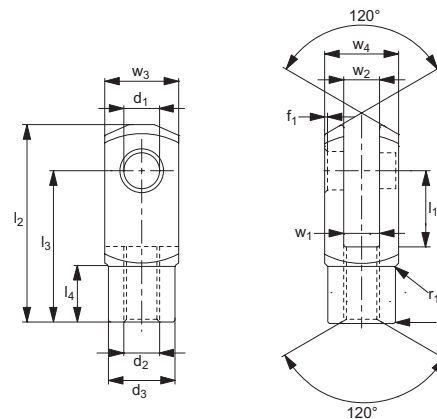


CLEVIS JOINTS & CLIPS

Order No.	Size	Thread hand	Thread type	d1 tol. H9	l1 ±0.5	d2	d3	l2 ±0.5	l3	l4	w1 ±0.5	w2	w3 tol. h11	w4	Weight g
R3385.R061	6x12	Right	Coarse	6	12	M 6	10	31	24	9.0	6	6	12	12	15



VIEW ONLINE



R3402.R104

Clevis Joint Right Hand Coarse

303 STAINLESS STEEL

WAS £18.33 NOW £2.72

Material

Stainless steel (1.4305 AISI 303 X8CrNiS18-9).

Technical Notes

M4-M16: DIN 71 752/DIN ISO 8140. M20-M27: Similar to DIN 71 752 and according to CETOP standard.

Important Notes

For sizes M4-M12, f1 and r1 = 0,5, for sizes M14-M16, f1 and r1 = 1, for size M20, f1=1, r1 = 1,5

For M24, f1 and r1 = 1,5, for M27, f1 = 1,5, r1 = 2, for r1, radius or 45° beveling.

Other Tolerances:-

w4: M4-M16 = +0,3 -0,16 M20-M27 = +0,5 -0,2

w2: Size 4x8-10x20 = B13

Size 10x40-30x54 = +0,7 +0,15

l3: up to size 6x12 = ±0,3

From size 6x24 = ±0,4

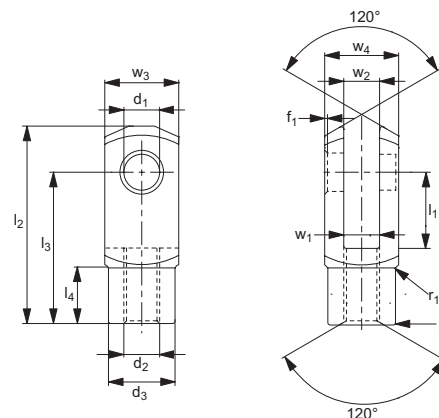


CLEVIS JOINTS & CLIPS

Order No.	Size	Thread hand	Thread type	d1 tol. H9	l1 ±0.5	d2	d3	l2 ±0.5	l3	l4	w1 ±0.5	w2	w3 tol. h11	w4	Weight g
R3385.R104	10x40	Right	Coarse	10	40	M 10	18	72	60	15.0	10	10	20	20	116



VIEW ONLINE



R3402.R122

Clevis Joint Right Hand

303 STAINLESS STEEL

WAS £22.07 NOW £16.73

Material

Stainless steel (1.4305 AISI 303 X8CrNiS18-9).

Technical Notes

M4-M16: DIN 71 752/DIN ISO 8140. M20-M27: Similar to DIN 71 752 and according to CETOP standard.

Important Notes

For sizes M4-M12, f1 and r1 = 0,5, for sizes M14-M16, f1 and r1 = 1, for size M20, f1=1, r1 = 1,5

For M24, f1 and r1 = 1,5, for M27, f1 = 1,5, r1 = 2, for r1, radius or 45° beveling.

Other Tolerances:-

w4: M4-M16 = +0,3 -0,16 M20-M27 = +0,5 -0,2

w2: Size 4x8-10x20 = B13

Size 10x40-30x54 = +0,7 +0,15

l3: up to size 6x12 = ±0,3

From size 6x24 = ±0,4

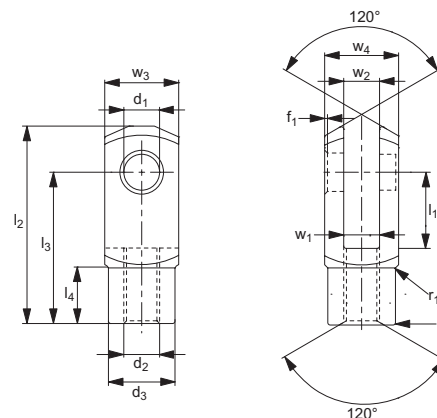


CLEVIS JOINTS & CLIPS

Order No.	Size	Thread hand	Thread type	d1 tol. H9	l1 ±0.5	d2	d3	l2 ±0.5	l3	l4	w1 ±0.5	w2	w3 tol. h11	w4	Weight g
R3385.R122	12x24	Right	Coarse	12	24	M 12	20	62	48	18.0	12	12	24	24	121



VIEW ONLINE



R3402.R124

Clevis Joint Right Hand

303 STAINLESS STEEL

WAS £29.41 NOW £4.18

Material

Stainless steel (1.4305 AISI 303 X8CrNiS18-9).

Technical Notes

M4-M16: DIN 71 752/DIN ISO 8140. M20-M27: Similar to DIN 71 752 and according to CETOP standard.

Important Notes

For sizes M4-M12, f1 and r1 = 0,5, for sizes M14-M16, f1 and r1 = 1, for size M20, f1=1, r1 = 1,5

For M24, f1 and r1 = 1,5, for M27, f1 = 1,5, r1 = 2, for r1, radius or 45° beveling.

Other Tolerances:-

w4: M4-M16 = +0,3 -0,16 M20-M27 = +0,5 -0,2

w2: Size 4x8-10x20 = B13

Size 10x40-30x54 = +0,7 +0,15

l3: up to size 6x12 = ±0,3

From size 6x24 = ±0,4



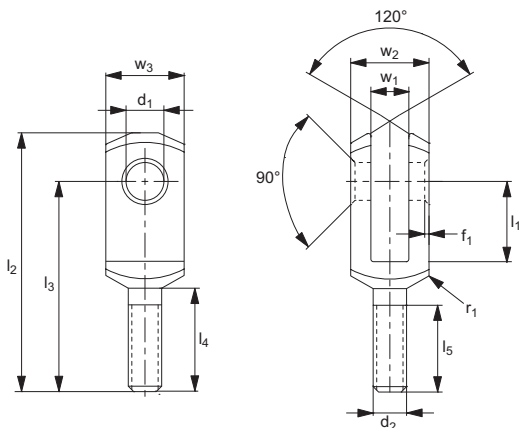
CLEVIS JOINTS & CLIPS

Order No.	Size	Thread hand	Thread type	d1 tol. H9	l1 ±0.5	d2	d3	l2 ±0.5	l3	l4	w1 ±0.5	w2	w3 tol. h11	w4	Weight g
R3385.R124	12x48	Right	Coarse	12	48	M 12	20	86	72	18.0	12	12	24	24	175



VIEW ONLINE





R3416.R020

Clevis Joint Right Hand

303 STAINLESS STEEL

WAS £163.53 NOW £72.98

Material

Stainless steel (1.4305 AISI 303).

Technical Notes

Similar to DIN 71 752/DIN ISO 8140/CETOP standard.

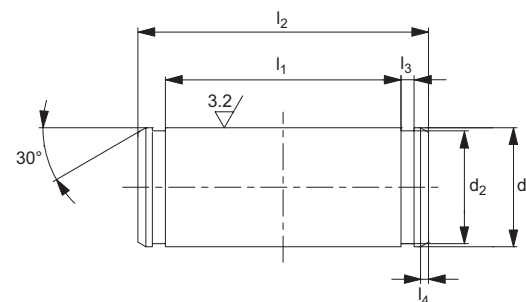


CLEVIS JOINTS & CLIPS

Order No.	Size	Thread hand	d ₁ tol. H9	l ₁ ±0.5	d ₂	l ₂ ±0.2	l ₃ ±0.4	l ₄ ±0.2	l ₅	w ₁ +0.7]-0.15	w ₂ +0.5]-0.2	w ₃ tol. h11	f ₁ ±0.2	r ₁	Weight g
R3416.R020	20x40	Right	20	40	M 20	134	109	55	50	20	40	40	1.0	1.5	550



VIEW ONLINE



R3454.012-060

Clevis Pin

STAINLESS STEEL

WAS £4.23 NOW £1.45

Material

Stainless steel (AISI 303).

Technical Notes

For use with R3402-R3403 clevis joints and R3447 circlips.

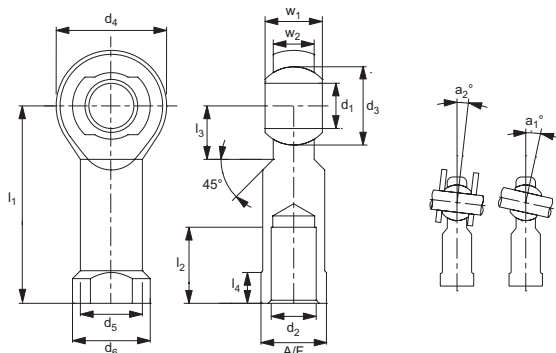


CLEVIS JOINTS & CLIPS

Order No.	d ₁ tol. h11	d ₂ tol. h11	l ₁ +0.30	l ₂ +0.40	l ₃ tol. h13	l ₄	Weight g
R3454.012-060	12	11.5	53	60	1.1	1	26



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R3566.L025

Rod End Heavy Duty - Female

304 STAINLESS STEEL

WAS £220.95 NOW £137.85

Material

Rod end housing: Stainless steel DIN 12240-4 (AISI 304).
Joint Ball: Stainless steel 1.4412, hardened and ground, surface polished. Race: nylon/teflon/glass compound.

Technical Notes

Maintenance free, for tolerances see technical page 123, standard thread is right hand thread.

Tips

A2 stainless steel provides good corrosion resistance to a wide range of atmospheric conditions and corrosive media. It is considered resistant to potable water.

Important Notes

*Denotes fine pitch thread.

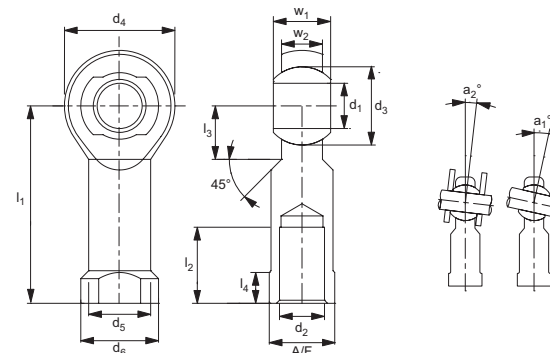


ROD ENDS

Order No.	Thread hand	d ₁	l ₁	d ₂	d ₃	d ₄	d ₅	d ₆	l ₂	Weight g	l ₃	l ₄	w ₁	w ₂	A/F	a ₁ °	a ₂ °	Dyn. load C max. kN	Static load C0 max. kN
R3566.L025	Left	25	94	M24x2*	42.85	60	33.5	42	42	705	30	12.0	31	22.00	36	15.0	10.0	45.4	87.0



VIEW ONLINE



R3566.R006

Rod End Heavy Duty - Female

304 STAINLESS STEEL

WAS £41.25 NOW £4.93

Material

Rod end housing: Stainless steel DIN 12240-4 (AISI 304).
Joint Ball: Stainless steel 1.4412, hardened and ground, surface polished. Race: nylon/teflon/glass compound.

Technical Notes

Maintenance free, for tolerances see technical page 123, standard thread is right hand thread.

Tips

A2 stainless steel provides good corrosion resistance to a wide range of atmospheric conditions and corrosive media. It is considered resistant to potable water.

Important Notes

*Denotes fine pitch thread.



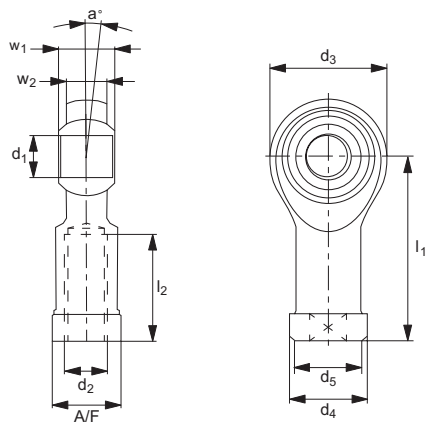
ROD ENDS

Order No.	Thread hand	d ₁	l ₁	d ₂	d ₃	d ₄	d ₅	d ₆	l ₂	Weight g	l ₃	l ₄	w ₁	w ₂	A/F	a ₁ °	a ₂ °	Dyn. load C max. kN	Static load C0 max. kN
R3566.R006	Right	6	30	M6	12.70	20	10.0	13	12	24	12	5.0	9	6.75	11	13.0	6.5	4.6	9.4



VIEW ONLINE





R3570.L005 Rod End Economy Female

STEEL

WAS £10.43 NOW £4.37

Material

Ball: low carbon steel, surface hardened. Silver zinc plated. Housing: low carbon steel, zinc plated for corrosion resistance. Bearing race: teflon. Brass bearing with PTFE composite lining.

Technical Notes

Standard thread is right hand thread.

Important Notes

Housing styles are subject to change.

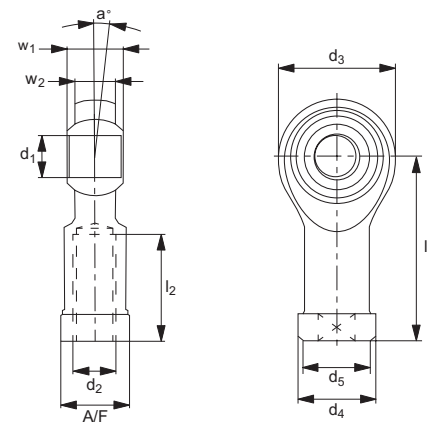


ROD ENDS

Order No.	Thread hand	d ₁ tol. H7	l ₁	d ₂	d ₃	d ₄	d ₅	l ₂	w ₁	w ₂	A/F	a °	Static load C ₀ max. kN
R3570.L005	Left	5	27	M 5	18	11	9.0	10	8	6.00	9	13	4.8



VIEW ONLINE



R3570.R010 Rod End Economy Female

STEEL

WAS £14.48 NOW £1.50

Material

Ball: low carbon steel, surface hardened. Silver zinc plated. Housing: low carbon steel, zinc plated for corrosion resistance. Bearing race: teflon. Brass bearing with PTFE composite lining.

Technical Notes

Standard thread is right hand thread.

Important Notes

Housing styles are subject to change.

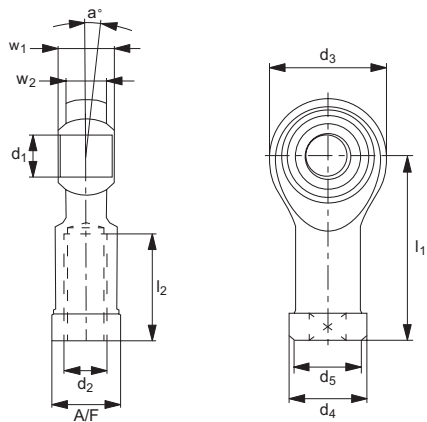


ROD ENDS

Order No.	Thread hand	d ₁ tol. H7	l ₁	d ₂	d ₃	d ₄	d ₅	l ₂	w ₁	w ₂	A/F	a °	Static load C ₀ max. kN
R3570.R010	Right	10	43	M 10	28	19	15.0	20	14	10.50	17	13	14.4



VIEW ONLINE



R3570.R012 Rod End Economy Female

STEEL

WAS £17.51 NOW £1.65

Material

Ball: low carbon steel, surface hardened. Silver zinc plated. Housing: low carbon steel, zinc plated for corrosion resistance. Bearing race: teflon. Brass bearing with PTFE composite lining.

Technical Notes

Standard thread is right hand thread.

Important Notes

Housing styles are subject to change.

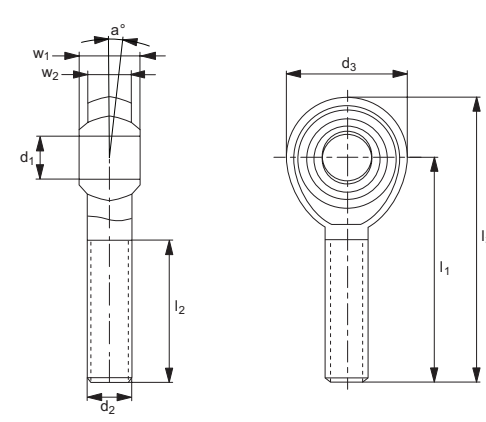


ROD ENDS

Order No.	Thread hand	d ₁ tol. H7	l ₁	d ₂	d ₃	d ₄	d ₅	l ₂	w ₁	w ₂	A/F	a °	Static load C ₀ max. kN
R3570.R012	Right	12	50	M 12	34	22	17.5	22	16	12.00	19	13	19.2



VIEW ONLINE



R3571.L012 Rod End Economy Male

STEEL

WAS £17.51 NOW £1.51

Material

Ball: low carbon steel, surface hardened. Silver zinc plated. Housing: low carbon steel, zinc plated for corrosion resistance. Bearing race: teflon. Brass bearing with PTFE composite lining.

Technical Notes

Standard thread is right hand thread.



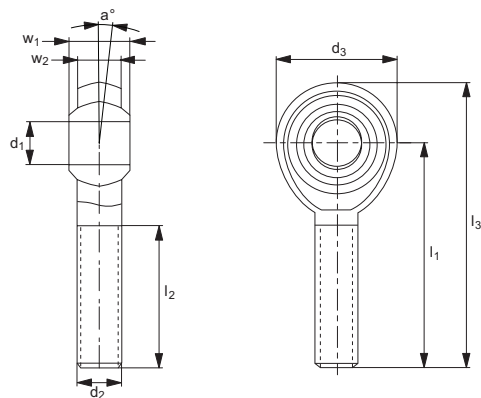
ROD ENDS

Order No.	Thread hand	d ₁ tol. H7	l ₁	d ₂	d ₃	l ₂	a °	l ₃	w ₁	w ₂	Static load C ₀ max. kN
R3571.L012	Left	12	54	M 12	32	32	13	70	16	12.00	18.2



VIEW ONLINE





R3571.R012

Rod End Economy Male

STEEL

WAS £17.51 NOW £1.51

Material

Ball: low carbon steel, surface hardened. Silver zinc plated. Housing: low carbon steel, zinc plated for corrosion resistance. Bearing race: teflon. Brass bearing with PTFE composite lining.

Technical Notes

Standard thread is right hand thread.

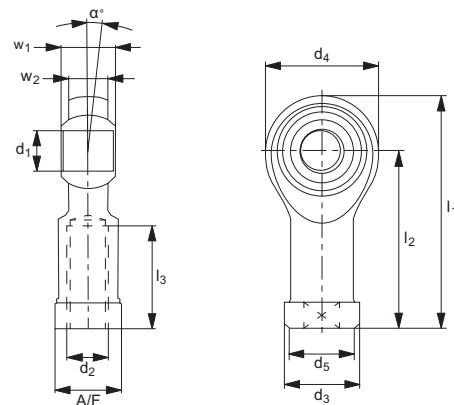


ROD ENDS

Order No.	Thread hand	d ₁ tol. H7	l ₁	d ₂	d ₃	l ₂	a °	l ₃	w ₁	w ₂	Static load C ₀ max. kN
R3571.R012	Right	12	54	M 12	32	32	13	70	16	12.00	18.2



VIEW ONLINE



R3576.R008-A2

Rod End Economy Female

303 STAINLESS STEEL

WAS £27.17 NOW £3.67

Material

Housing: stainless steel (AISI 303) Ball: Stainless steel, hardened ground and polished stainless steel bearing rings.

Technical Notes

Standard thread is right hand thread, series K, maintenance free.

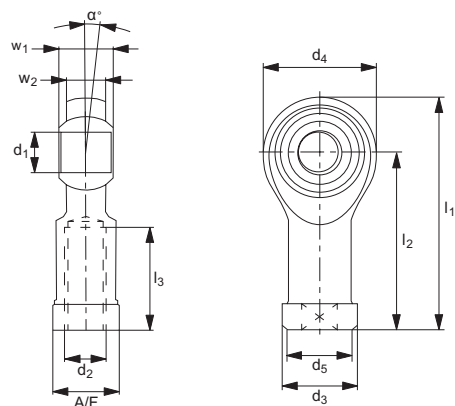


ROD ENDS

Order No.	Thread hand	d ₁ tol. H7	l ₁	d ₂	d ₃	d ₄	d ₅	Weight g	l ₂	l ₃	w ₁	w ₂	A/F	a °	Static load C ₀ max. kN
R3576.R008-A2	Right	8	48	M 8	16	24	12.5	47	36	16	12	9.00	14	14	10.3



VIEW ONLINE



R3576.R010-A2

Rod End Economy Female

303 STAINLESS STEEL

WAS £31.60 NOW £4.54

Material

Housing: stainless steel (AISI 303) Ball: Stainless steel, hardened ground and polished stainless steel bearing rings.

Technical Notes

Standard thread is right hand thread, series K, maintenance free.

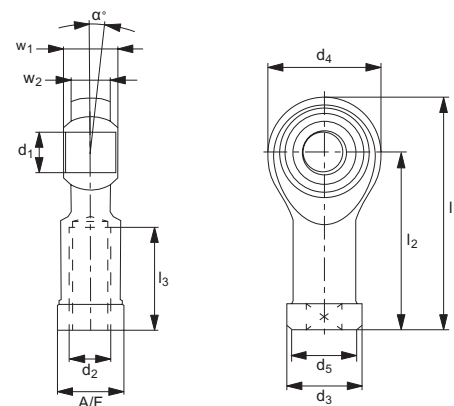


ROD ENDS

Order No.	Thread hand	d ₁ tol. H7	l ₁	d ₂	d ₃	d ₄	d ₅	Weight g	l ₂	l ₃	w ₁	w ₂	A/F	a °	Static load C ₀ max. kN
R3576.R010-A2	Right	10	57	M 10	19	28	15.0	77	43	20	14	10.50	17	13	14.4



VIEW ONLINE



R3576.R012-A2

Rod End Economy Female

303 STAINLESS STEEL

WAS £37.39 NOW £6.12

Material

Housing: stainless steel (AISI 303) Ball: Stainless steel, hardened ground and polished stainless steel bearing rings.

Technical Notes

Standard thread is right hand thread, series K, maintenance free.



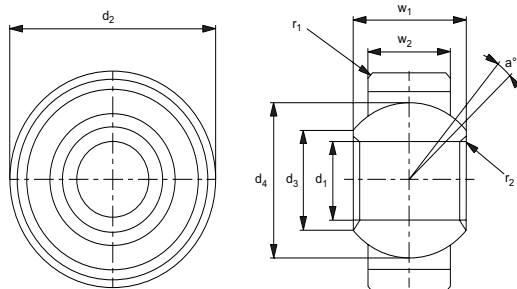
ROD ENDS

Order No.	Thread hand	d ₁ tol. H7	l ₁	d ₂	d ₃	d ₄	d ₅	Weight g	l ₂	l ₃	w ₁	w ₂	A/F	a °	Static load C ₀ max. kN
R3576.R012-A2	Right	12	66	M 12	22	32	17.5	100	50	22	16	12.00	19	13	19.2



VIEW ONLINE





R3640.008 Spherical Plain Bearing

STEEL

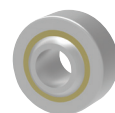
WAS £2.31 NOW £1.12

Material

Housing: undercut steel 115MnPB30K (1.0718) turned silver zinc plated. Ball: ball bearing steel 100Cr6 hardened, surface condition polished. Race: teflon.

Technical Notes

To DIN 12240-1.

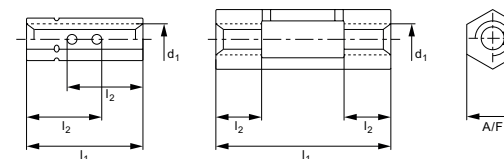


ROD ENDS

Order No.	a °	d ₁ tol. H7	d ₂	d ₃	d ₄	r ₁	r ₂	w ₁	w ₂	Static load C ₀ max. kN	Weight g
R3640.008	13	8	22	10.3	15.88	0.3	1.2	12	9	36	24



VIEW ONLINE



size M6-M16

size M20 upwards

R3826.024-A4 Turnbuckle Hexagonal Body

STAINLESS STEEL

WAS £87.09 NOW £35.00

Material

Stainless steel (A4).

Technical Notes

To DIN 1479.

Important Notes

L2 dimension indicates the length of thread from each end that has been overcut. This means you can screw from one end a total of length L2. Please note if screwing in from both ends the length of thread is half L2. Sizes M6-M16, have overlapping thread, from M20 middle part is relieved.

Turnbuckles are not to be used for lifting.
Only suitable for use in tension.

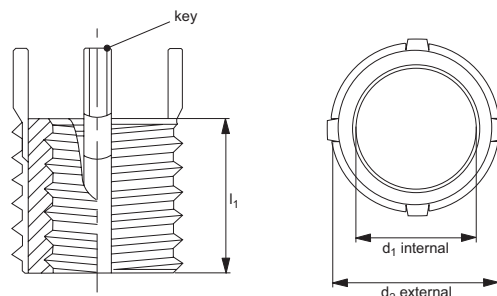


TURNBUCKLES

Order No.	d ₁	l ₁	l ₂	A/F	Adjustment	Weight kg
R3826.024-A4	M 24	115	29.0	36	57	0.53



VIEW ONLINE



TR1510.66555 Thread Insert Thinwall Ind. Grd. Metric

303 STAINLESS STEEL

WAS £8.73 NOW £6.39

Material

Inserts: stainless steel (AISI 303) or equivalent. Passivated. Keys: stainless steel (302 CRES) or equivalent. Passivated.

Technical Notes

General tolerances: ±0.25, unless specified.
Tap drill hole tolerances: 6,9 to 10,8 = +0,10/-0,025.
12,8 and over = +0,13/-0,025.

Important Notes

Four locking keys on internal threads M 8 and over.
Two locking keys on internal threads smaller than M 8.
Installation (Inst.) drill size, countersink, thread tap and thread depth as specified in table. Removal drill size and drill depth as specified in table.

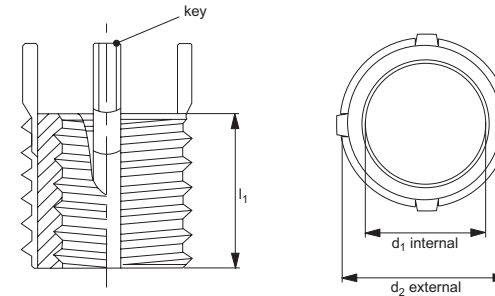


THREADED INSERTS

Order No.	Int. d ₁ tol. 6H	Int. thread type d ₁	Ext. d ₂ tol. 6g	Ext. thread type d ₂	l ₁	Inst. tap drill size	Inst. tool ref. 22060	Inst. c'sink dia. ±0.25 ±0.000	Inst. thread tap tol. 6H	Inst. thread depth min.	Removal drill size	Removal drill depth
TR1510.66555	M10x1,25	Fine	M14x1,50	Fine	14	12.8	.W0550	14.3	M14x1,50	15.5	11.5	4.8



VIEW ONLINE



TR1515.66566 Thread Insert Heavy Duty Metric Fine

303 STAINLESS STEEL

WAS £9.18 NOW £3.26

Material

Inserts: stainless steel (AISI 303) or equivalent. Passivated. Keys: stainless steel (302 CRES) or equivalent. Passivated.

Technical Notes

General tolerances: ±0.25, unless specified.
Tap drill hole tolerances: 6,9 to 10,8 = +0,10/-0,025.
12,8 and over = +0,13/-0,025

Important Notes

Four locking keys on internal threads M 8 and over.
Two locking keys on internal threads smaller than M 8.
Installation (Inst.) drill size, countersink, thread tap and thread depth as specified in table. Removal drill size and drill depth as specified in table.



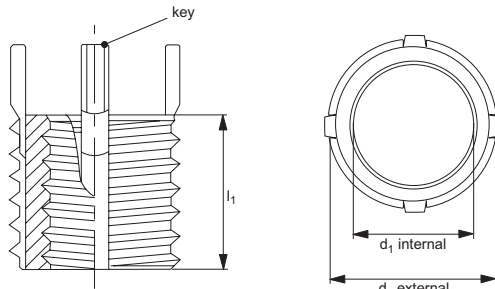
THREADED INSERTS

Order No.	Int. d ₁ tol. 6H	Int. thread type d ₁	Ext. d ₂ tol. 6g	Ext. thread type d ₂	l ₁	Inst. tap drill size	Inst. tool ref. 22062	Inst. c'sink dia. ±0.25 ±0.000	Inst. thread tap tol. 6H	Inst. thread depth min.	Removal drill size	Removal drill depth
TR1515.66566	M 8x1,00	Fine	M14x1,50	Fine	14	12.8	.W0660	14.3	M14x1,50	16.5	11.5	4.8



VIEW ONLINE





TR1525.65970 Thread Insert Heavy Duty Metric Coarse

CARBON STEEL

WAS £9.74 NOW £4.00

Material
Inserts: carbon steel (C1215) or equivalent. Zinc phosphate. Keys: stainless steel (302 CRES) or equivalent. Passivated.

Technical Notes
General tolerances: $\pm 0,25$, unless specified.
Tap drill hole tolerances: 6,9 to 10,8 = $+0,10/-0,025$.
12,8 and over = $+0,13/-0,025$.

Important Notes
Four locking keys on internal threads M 8 and over. Two locking keys on internal threads smaller than M 8.
Installation (Inst.) drill size, countersink, thread tap and thread depth as specified in table. Removal drill size and drill depth as specified in table.

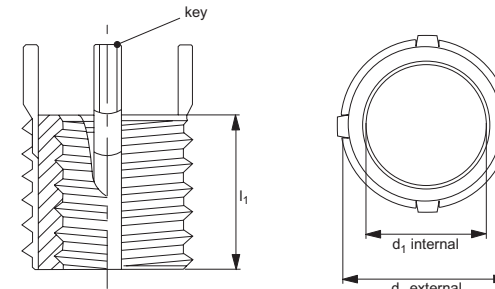


THREADED INSERTS

Order No.	Int. d ₁ tol. 6H	Int. thread type d ₁	Ext. d ₂ tol. 6g	Ext. thread type d ₂	l ₁	Inst. tap drill size	Inst. tool ref. 22062	Inst. c'sink dia. $\pm 0,25 \pm 0,000$	Inst. thread tap tol. 6H	Inst. thread depth min.	Removal drill size	Removal drill depth
TR1525.65970	M14x2,00	Coarse	M20x1,50	Fine	20	18.8	.W0700	20.3	M20x1,50	22.5	17.5	4.8



VIEW ONLINE



TR1530.66644 Thread Insert Heavy Duty Inch Coarse

303 STAINLESS STEEL

WAS £17.83 NOW £11.00

Material
Inserts: stainless steel (AISI 303) or equivalent. Passivated. Keys: stainless steel (302 CRES) or equivalent. Passivated.

Technical Notes
General tolerances: $\pm 0,010$ " unless specified.
Tap drill hole tolerances: 0,234 to 0,500 = $+0,004/-0,001$ ". 0,500 and over = $+0,005/-0,001$ ".

Important Notes
Four locking keys on internal threads M8 and over. Two locking keys on internal threads smaller than M8.
Installation (Inst.) drill size, countersink, thread tap and thread depth as specified in table. Removal drill size and drill depth as specified in table.

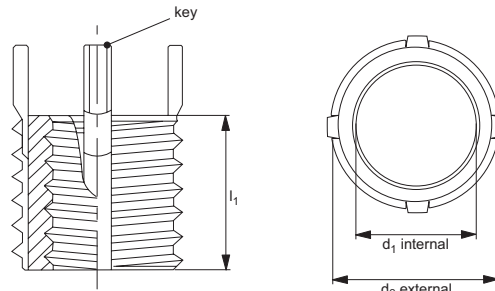


THREADED INSERTS

Order No.	Int. d ₁ tol. 6H	Int. thread type d ₁	Ext. d ₂ tol. 2A	Ext. thread type d ₂	l ₁	Inst. tap drill size	Inst. tool ref. 22064	Inst. c'sink dia. $\pm 0,010 \pm 0,000$	Inst. thread tap tol. 2B	Inst. thread depth min.	Removal drill size	Removal drill depth
TR1530.66644	M 8x1,25	Coarse	1/2"-13	UNC	0.4	29/64"	.W0440	0.51	1/2"-13	0.50	13/32"	3/16"



VIEW ONLINE



TR1565.66304 Thread Insert Heavy Duty

303 STAINLESS STEEL

WAS £8.04 NOW £5.50

Material
Inserts: stainless steel (AISI 303) or equivalent. Passivated. Keys: stainless steel (302 CRES) or equivalent. Passivated.

Technical Notes
General tolerances: $\pm 0,010$ " unless specified.
Tap drill hole tolerances: 0,234 to 0,500 = $+0,004/-0,001$ ". 0,500 and over = $+0,005/-0,001$ ".

Tips
Four locking keys on internal threads 5/16" and over. Two locking keys on internal threads smaller than 5/16".
Installation (Inst.) drill size, countersink, thread tap and thread depth as specified in table. Removal drill size and drill depth as specified in table.

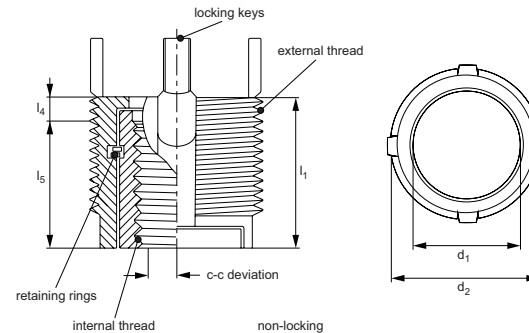


THREADED INSERTS

Order No.	Int. d ₁ tol. 2B	Int. thread type d ₁	Ext. d ₂ tol. 2A	Ext. thread type d ₂	l ₁	Inst. tap drill size	Inst. tool ref. 22062	Inst. c'sink dia. $\pm 0,10 \pm 0,000$	Inst. thread tap tol. 2B	Inst. thread depth min.	Removal drill size	Removal drill depth
TR1565.66304	3/8"-16	UNC	9/16"-12	UNC	0.50	33/64"	.W0700	0.57	9/16"-12	0.56	15/32"	3/16"



VIEW ONLINE



TR1685.89401 Thread Insert Heavy Duty Inch Non Lock.

STEEL

WAS £82.40 NOW £41.40

Material
Inserts - 303 CRES. Keys and retaining ring - 302 CRES. Passivated. Dry film lubrication on selflocking inserts only.

Technical Notes
All dimensions in inches. Internal threads: to SAE AS8879.
General tolerances - $\pm 0,010$ unless specified. Tap drill hole tolerances - 0,130 to 0,233 = $+0,003/-0,001$ NL = Non-thread locking type

Important Notes
Four locking keys on internal threads 5/16 and over. Two locking keys on internal threads smaller than 5/16.
Installation (Inst.) drill size, counter sink, thread tap and thread depth as specified in table. Removal (Rem.) drill size and drill depth as specified in table.

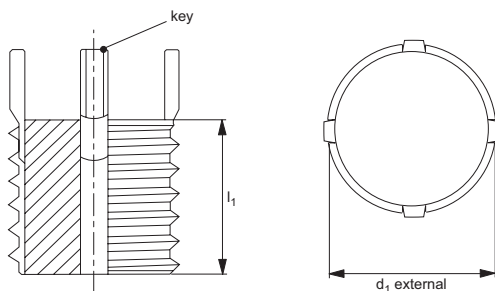


THREADED INSERTS

Order No.	Type	d ₁ tol. 3B	Thread type d ₁	l ₁ ±0.015	d ₂ (mod.) class 2A	Thread type d ₂	l ₄	l ₅	c-c float min.	Inst. c'sink dia. ±0.010 -0.000	Inst. tap drill size	Inst. thread tap depth min.	Inst. thread tap size class 2B	Inst. tool ref. TR1725	Removal drill size	Removal drill depth
TR1685.89401	NL	10-32	UNF	.40	7/16-20	UNC	.15	.25	.040	.447	.406	.39	7/16-20	.0010	11/32	5/32



VIEW ONLINE



TR1690.66425 Thread Insert Solid Metric Fine

303 STAINLESS STEEL

WAS £46.00 NOW £30.00

Material

Inserts: stainless steel (AISI 303) or equivalent.
Passivated. Keys: stainless steel (302 CRES) or equivalent. Passivated.

Technical Notes

General tolerances: $\pm 0,25$ unless specified.
Tap drill hole tolerances: 6,9 to 10,8 = $+0,10/-0,025$.
12,8 and over = $+0,13/-0,025$.

Important Notes

Four locking keys on external threads M12 and over. Two locking keys on external threads smaller than M12.
Installation (Inst.) drill size, countersink, thread tap and thread depth as specified in table. Removal drill size and drill depth as specified in table. External metric thread allows you to machine your internal thread.

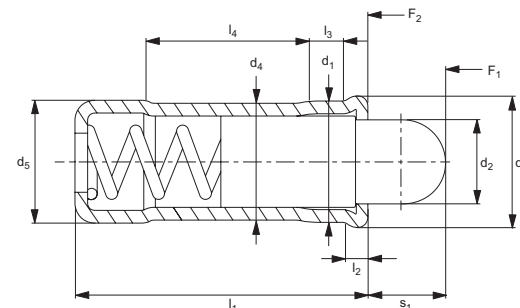


THREADED INSERTS

Order No.	d ₁ tol. 6g	Thread type d ₁	l ₁	Inst. tool ref. 22052	Inst. tap drill size	Inst. c'sink dia. +0.25 -0.00	Inst. thread tap tol. 6H	Inst. thread tap depth min.	Removal drill size	Removal drill depth
TR1690.66425	M16x1,50	Fine	16	.W0250	14.8	16.3	M16x1,50	18.5	13.50	4.8



VIEW ONLINE



32282.W0108 Spring Plunger Pin End - Smooth

STAINLESS STEEL

WAS £5.90 NOW £1.45

Material

Body: stainless steel 1.4303 (AISI 305). Pin: stainless steel 1.4305 (AISI 303), or thermoplastic POM white.
Spring: stainless steel

Technical Notes

Used for locating, applying pressure or lifting off.
Thermoplastic type temperature range -30°C to +50°C.
Stainless type, temperature range max. 250°C.
Spring load * = statistical average value.

Tips

Special types available on request. A tolerance of H7 is recommended for the locating hole of d1.

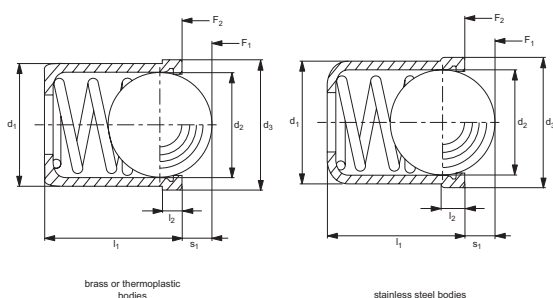


SPRING & INDEX PLUNGERS

Order No.	Pin type	d ₁ +0.1 +0.04	d ₂	d ₃	d ₄	d ₅ ±0.04	l ₁	l ₂ ≈	l ₃ ≈	l ₄ ≈	s ₁	Spring load F ₁ ≈ N	Spring load F ₂ ≈ N	Temp. max. °C	Weight g
32282.W0108	Stainless	8	6.2	8.5	7.55	8	18.0	1.1	2.9	9.5	6.5	9.0	20.1	+250	4.2



VIEW ONLINE



32300.W0012 Spring Plunger Standard Smooth

STAINLESS STEEL

WAS £5.11 NOW £1.19

Material

Body: stainless steel 1.4303 (AISI 305), brass, or thermoplastic POM, blue. Ball: ball bearing steel 1.3505 (100Cr6) hardened or thermoplastic POM, white. Spring: stainless steel 1.4568 (X7CrNiAl17-7).

Technical Notes

Used for locating, applying pressure or lifting off.
Spring loads * = statistical average values. Thermo type temperature range -30°C to +50°C. Stainless and brass type, temperature range max. 250°C. For calculation of indexing resistance please refer to spring plunger technical pages.

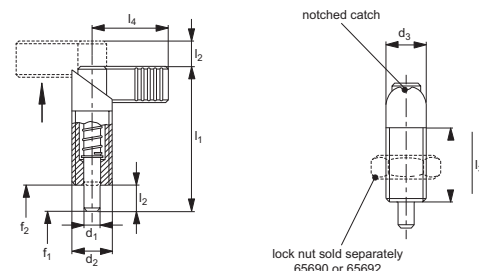


SPRING & INDEX PLUNGERS

Order No.	Spring load	Finish	d ₁ -0 +0.1	d ₂	d ₃	l ₁	l ₂ ≈	s ₁	Spring load F ₁ ≈ N	Spring load F ₂ ≈ N	Temp. max. °C	Weight g
32300.W0012	Standard	Body & Ball Stainless	12	10.00	13.0	16.0	2.3	4.00	12.0	26.5	+250	7.30



VIEW ONLINE



32500.W0004 Index Plunger Lever Grip - Without Grip

STEEL

WAS £22.34 NOW £9.15

Material

Body: free-cutting steel, blackened. Pin: hardened steel.
Plastic grip: thermoplastic, black, dull.

Technical Notes

Turn lever 180° to retract pin. To enable pin to be held in retracted position, secure lever in notched catch on plunger body. Plastic grip type, improves handling.
Temperature resistance of type with plastic grip is -30°C to +80°C. Lock nuts sold separately. See products 65690 and 65692.

Tips

Spring loads * = statistical average



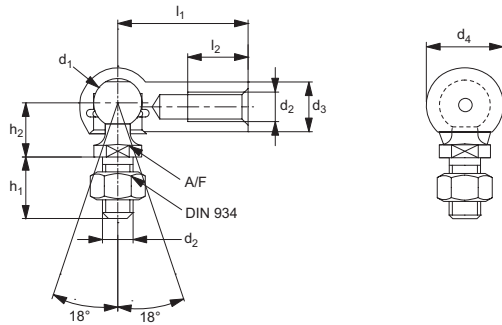
SPRING & INDEX PLUNGERS

Order No.	Type	d ₁ -0.02 -0.04	d ₂	d ₃	l ₁ ≈	l ₂ min.	l ₃ +1.5	l ₄	Spring load F ₁ ≈ N	Spring load F ₂ N	Weight g
32500.W0004	Without Grip	6	M12x1,5	12	47.0	8	26	26	8.5	19.5	29.0



VIEW ONLINE





65500.W0112 Ball & Socket Joint Right Hand

STEEL

WAS £7.71 NOW £0.94

Material

Steel, silver zinc plated, ball stud: minimum tensile strength $R_m=600N/mm^2$. Housing: minimum tensile strength $R_m=500N/mm^2$.

Technical Notes

To DIN 71802 form CS, supplied with hexagon nut. Safety ring aids the retention of the ball stud in the housing. *M14x1.5 is a fine pitch thread. Male stud part is to DIN 71803 form C

Important Notes

Thread is not full length. There is a min 1.5mm unthreaded shank. If using part without the supplied nut, then please consider a counterbore to accommodate the unthreaded shank.

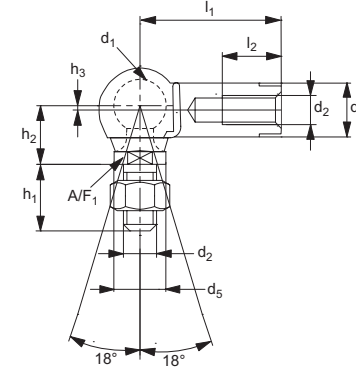
Order No.	Thread hand	d ₁	l ₁	d ₂	d ₃	d ₄	h ₁	Weight g	h ₂	h ₃	l ₂	A/F tol. h14	Extraction force min. kg	Static load max. kg	Dyn. load C max. kg	Force required for movement max. kg
65500.W0112	Right	16	35	M 12	16	24.0	20.0	103.8	16	7.3	15.5	13	8	400	160	8



VIEW ONLINE



BALL & SOCKET JOINTS



65508.W0105 Ball & Socket Joint With Flats on Housing

STEEL

WAS £3.04 NOW £0.58

Material

Stud: carbon steel, sealing cap: neoprene. Housing: steel (9sMnPb28), silver zinc plated.

Technical Notes

To DIN 71802 form CS, supplied without hexagon nut. Safety ring aids the retention of the ball stud in the housing. *M14x1.5 is a fine pitch thread. Male stud part is to DIN 71803 form C.

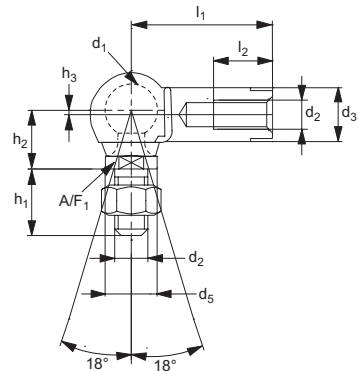
Important Notes

Thread is not full length. There is a min 1.5mm unthreaded shank. If using part without a nut, then please consider a counterbore to accommodate the unthreaded shank.

Order No.	Thread hand	d ₁	l ₁	d ₂	d ₃	d ₄	d ₅	Weight g	h ₁	h ₂	h ₃	h ₄	l ₂	A/F ₁	Extraction force min. kg	Static load max. kg	Dyn. load C max. kg	Force required for movement max. kg
65508.W0105	Right	8	22	M 5	8	12.8	8	15.2	10.0	9	0.65	4.0	10.2	7	3	50	20	3



VIEW ONLINE



65508.W0110 Ball & Socket Joint With Flats on Housing

STEEL

WAS £5.04 NOW £1.26

Material

Stud: carbon steel, sealing cap: neoprene. Housing: steel (9sMnPb28), silver zinc plated.

Technical Notes

To DIN 71802 form CS, supplied without hexagon nut. Safety ring aids the retention of the ball stud in the housing. *M14x1.5 is a fine pitch thread. Male stud part is to DIN 71803 form C.

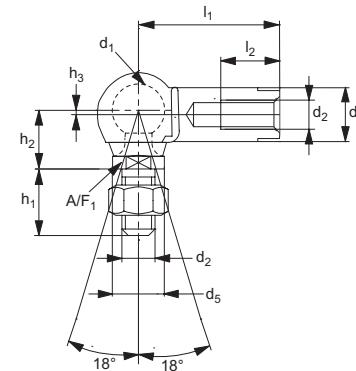
Important Notes

Thread is not full length. There is a min 1.5mm unthreaded shank. If using part without a nut, then please consider a counterbore to accommodate the unthreaded shank.

Order No.	Thread hand	d ₁	l ₁	d ₂	d ₃	d ₄	d ₅	Weight g	h ₁	h ₂	h ₃	h ₄	l ₂	A/F ₁	Extraction force min. kg	Static load max. kg	Dyn. load C max. kg	Force required for movement max. kg
65508.W0110	Right	16	35	M 10	16	24.0	16	103.8	20.0	16	1.15	7.3	15.5	13	8	400	160	8



VIEW ONLINE



65508.W0112 Ball & Socket Joint With Flats on Housing

STEEL

WAS £4.75 NOW £1.28

Material

Stud: carbon steel, sealing cap: neoprene. Housing: steel (9sMnPb28), silver zinc plated.

Technical Notes

To DIN 71802 form CS, supplied without hexagon nut. Safety ring aids the retention of the ball stud in the housing. *M14x1.5 is a fine pitch thread. Male stud part is to DIN 71803 form C.

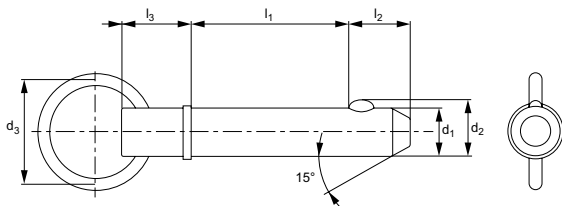
Important Notes

Thread is not full length. There is a min 1.5mm unthreaded shank. If using part without a nut, then please consider a counterbore to accommodate the unthreaded shank.

Order No.	Thread hand	d ₁	l ₁	d ₂	d ₃	d ₄	d ₅	Weight g	h ₁	h ₂	h ₃	h ₄	l ₂	A/F ₁	Extraction force min. kg	Static load max. kg	Dyn. load C max. kg	Force required for movement max. kg
65508.W0112	Right	16	35	M 12	16	24.0	16	103.8	20.0	16	1.15	7.3	15.5	13	8	400	160	8



VIEW ONLINE



33016.W1820

Detent Pin Ring Handle

303 STAINLESS STEEL

WAS **£10.04** NOW **£2.60**

Material

Shaft: Stainless steel, AISI 303. Ball & Spring: Stainless steel, AISI 316.

Technical Notes

Detent pins are very economical for use in commercial and military equipment. The solid body with direct spring loaded ball ensures reliable operation. For locking telescopic tubing, securing bracket assemblies, as anchor clevis fittings, hinge pins etc where frequent removal is necessary. Hole sizes - commercial drills provide clearance for our standard pins. Inch dimensions in brackets ().

Tips

Also available on request in A4 (AISI 316) stainless steel, subject to min. quantity.

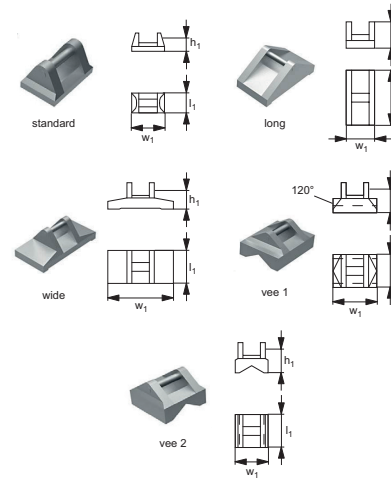


BALL LOCK PINS

Order No.	d ₁ +0.00/-0.08	l ₁ grip +1.50/-0.00	d ₂	d ₃	l ₂	l ₃	Pull out strength kg	Single shear strength min. kN
33016.W1820	4,76 (3/16")	50,8 (2")	5.18	25.4	5.08	17.45	1, 9 - 2, 3	12.2



VIEW ONLINE



10652.W1150

Clamping Pad Monobloc Set of 4

ALUMINIUM

WAS **£109.14** NOW **£75.72**

Material

Aluminium.

Technical Notes

Clamping pads to suit differing workpiece shapes. For use with clamps 10650, 10655, 10660.

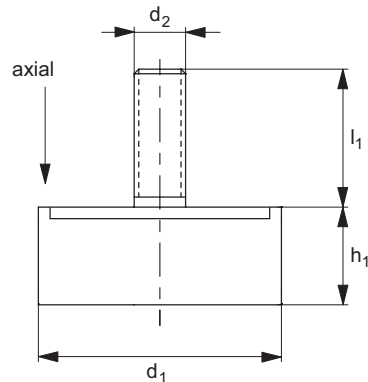


CLAMPING

Order No.	Pad type
10652.W1150	Set of 4 (Long, Wide, Vee 1, Vee 2)



VIEW ONLINE



61200.W0404

Anti-Vibration Feet

STEEL

WAS **£5.18** NOW **£3.13**

Material

Rubber on silver zinc plated steel (rubber hardness - 55 Shore A).

Tips

These feet or bumpers reduce shock and vibration. Used widely as shock absorbers and feet for machine elements.

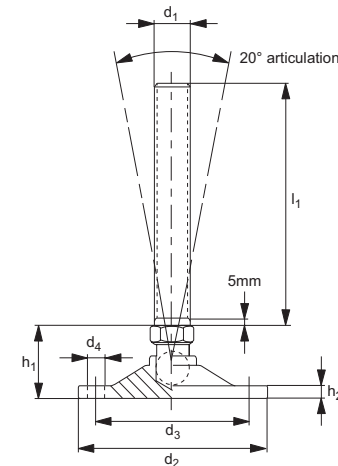


ANTI-VIBRATION

Order No.	d ₁	h ₁	d ₂	l ₁	Compression max.	Axial load max. kgf
61200.W0404	40	30.0	M 8	20	8.0	100



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34702.W0742

Levelling Feet Bolt Down

STEEL

WAS **£87.21** NOW **£43.25**

Material

Pad and bolt: mild steel, nickel plated.

Technical Notes

Bolt has a 20° angle of movement.



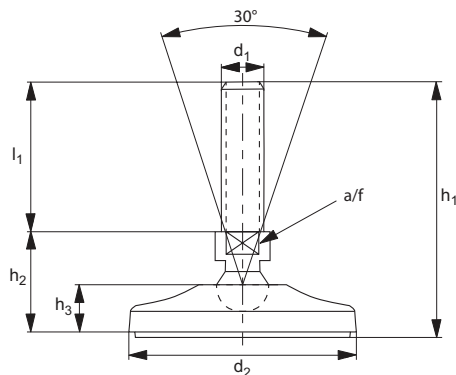
LEVELLING FEET

Order No.	d ₁	d ₂	d ₃	d ₄	h ₁	h ₂	l ₁	Static load max. kN
34702.W0742	M 24	120	100	11.0	56	7.5	200	37.5



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34714.W2404

Levelling Feet Swivel

304 STAINLESS STEEL

WAS £96.61 NOW £46.02

Material

Stainless steel (AISI 304), with rubber pad (70 Shore A).
Stainless steel (AISI 316) version available on request.

Technical Notes

Load values refer to static loads, located at half the screw height. When vibrations or dynamic loads are present these values should be reduced.

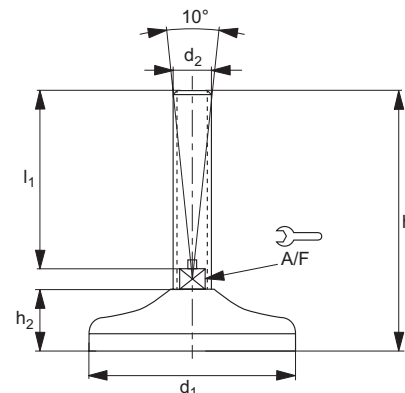


LEVELLING FEET

Order No.	d ₁	l ₁	d ₂	h ₁	h ₂	h ₃	A/F	Load max. kN
34714.W2404	M 24	175	100	222	44	20.0	20	55



VIEW ONLINE



34703.W1200

Levelling Feet

STEEL

WAS £12.70 NOW £7.50

Material

Galvanized steel (C40), with rubber pad (70 shore A).

Technical Notes

Load values refer to static loads, located at half the screw height.

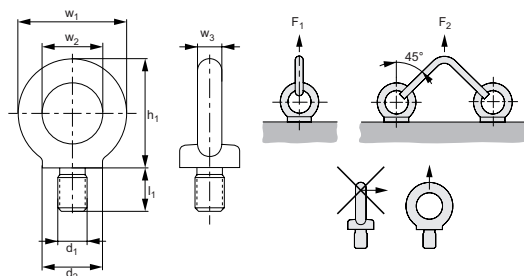


LEVELLING FEET

Order No.	d ₁	d ₂	h ₁	h ₂	l ₁	A/F	Load max. kgf
34703.W1200	50	M 12	79	19	50	14	400



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18863.W0030

Lifting Eye Bolt Male

STEEL

WAS £22.06 NOW £13.50

Material

Forged steel (C15E) annealed and zinc plated. Contact face machined. CE marked.

Technical Notes

To DIN 580. When using lifting eye bolts it is critical to ensure that the face is in firm contact with the mating surface. These lifting bolts are generally installed and remain on a piece of equipment for the purpose of transporting them. They are not for repeated lifting use - if this is required our swivelling lifting bolt range should be used.

Important Notes

Not to be used at lift angles of greater than 45° or with swivelling loads. **Please refer to the safety documentation before using this part. Supplied with certificate and operating instructions.**

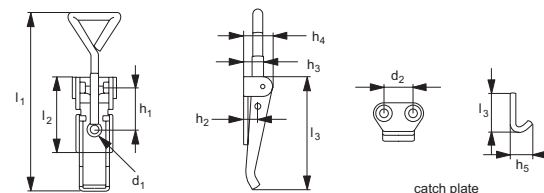


LIFTING EYE BOLTS

Order No.	Thread	d ₁	d ₂	w ₁	l ₁	h ₁	w ₂	w ₃	F ₁ max. kg	F ₂ max. kg	Weight kg
18863.W0030	Coarse	M 30	65	108	45.0	109	60	24	3200	2300	1.66



VIEW ONLINE



J0510.AC0094

Draw Latches Adjustable

ZINC PLATED STEEL

WAS £11.62 NOW £6.94

Material

Steel, zinc plated.

Technical Notes

Supplied with catch plate. Draw length adjustable through turns of threaded draw rod.

Tips

Ideal for tool boxes, enclosures and other applications.



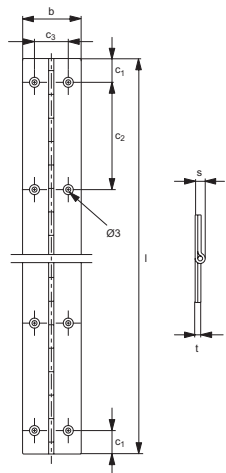
DRAW LATCHES

Order No.	l ₁	l ₂	h ₁	d ₁	h ₂	h ₃	h ₄	l ₃	d ₂	l ₅	h ₅
J0510.AC0094	94-125	40	17	5.3	8.0	11	16	65.5	17	22	12.5



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S0100.AC0390

Piano Hinge Surface Mount

304 STAINLESS STEEL

WAS £37.11 NOW £23.38

Material

Stainless steel, AISI 304, satin finish.

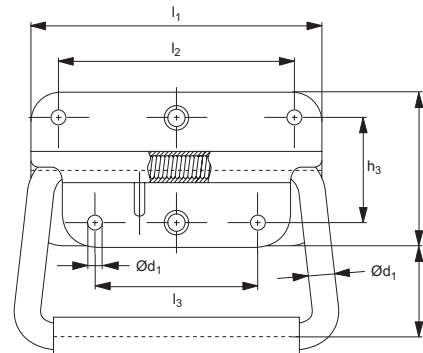


HINGES

Order No.	b	c ₁	c ₂	c ₃	l	s	t	Holes	Weight g
S0100.AC0390	30	14.0	62.3	17	900	3.5	1.2	30	280



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79586.W0004

Trunk Handle Spring Loaded

ZINC PLATED STEEL

WAS £20.47 NOW £9.32

Material

Steel, zinc plated.

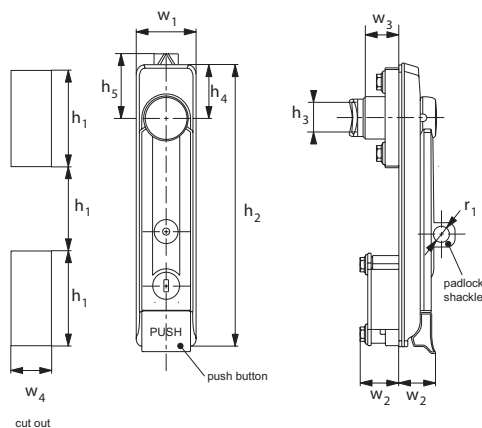


PULL HANDLES

Order No.	Finish	Length available	Ø d ₁	Ø d ₂	h ₁	h ₂	h ₃	l ₁	l ₂	l ₃	Weight g
79586.W0004	Zinc plated steel	100mm	8	5.2	54	30	36.5	103	82.5	57	120



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B1285.AW0025

Swing Handle Without Lock, With Button

ZINC

WAS £22.11 NOW £9.93

Material

Body & Handle: die cast zinc, black powder coated. Cylinder lock: die cast zinc, chrome plated. Supplied with: Keys: two per lock. Not supplied: Cam: please order separately.

Technical Notes

Order cam separately. Cams: see suitable cam A0203, A0224 and A0240. Select "without projection" cam type. Dimensions ch and cl relate to cam. Use formula to calculate ch (required cam off-set), and refer to cam selection chart; $ch = h - lh$ where: **ch** = required cam off-set/height. **h** = grip length (distance between inside of latch face and front of cam). **lh** = body length of cam latch/lock to be used (see product table below).

Rods & Guides: to achieve 3-point latching - A0303, A0321, A0325.

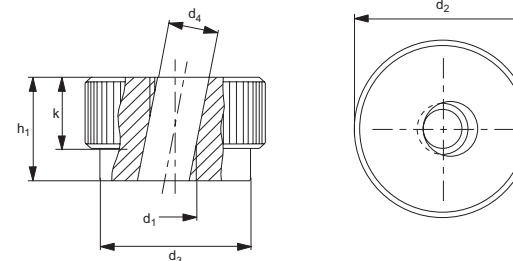


SWING HANDLES

Order No.	w ₁	w ₂	w ₃ GH	w ₄ +0-0.5	r ₁	h ₁ +0-0.5	h ₂	h ₃	h ₄	h ₅
B1285.AW0025	34	21	19	25	10	50	158	8	30	45



ENQUIRE HERE



37360.W5006

Knurled Knob Quick Tightening

STAINLESS STEEL

WAS £11.29 NOW £9.74

Material

Stainless steel.

Technical Notes

These knurled knobs are used when quick tightening is required and with only a slight clamping force. The knob is inserted obliquely on the threaded stud and then placed in the axial position so that it fits onto the stud threads. At this point it can be locked with just a slight rotation.



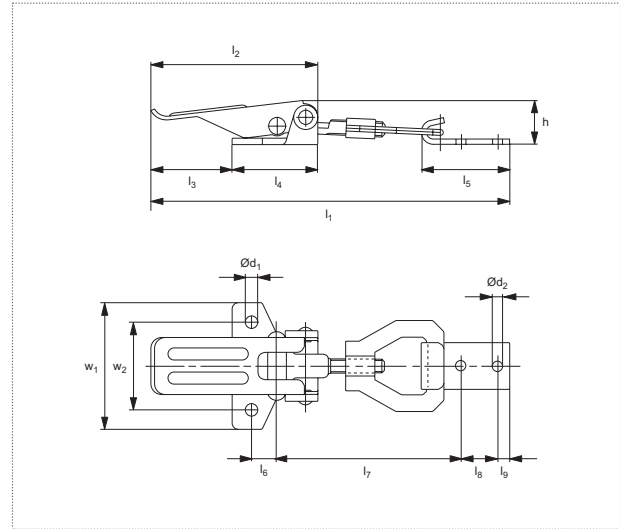
KNURLED KNOBS

Order No.	d ₁	d ₂	d ₃	d ₄	h ₁	k	Weight g
37360.W5006	M 6	24	16	6.7	14	10	35



ENQUIRE HERE





J0520.AC0004

Toggle Latch

ZINC PLATED STEEL

WAS **£4.75** NOW **£1.63**

Material

Steel, Fe P02 + P12, UNI5866, zinc plated. Or stainless steel AISI 304, UNI x5crNi.

Technical Notes

Supplied with counter strike. Draw length adjustable through turns of threaded draw rod, giving 12mm length of adjustment.



TOGGLE LATCHES

Order No.	Finish	l_1	h	w_1	$\varnothing d_1$	$\varnothing d_2$	l_2	l_3	l_4	Weight g	l_5	l_6	l_7	l_8	l_9	Load max. N	Tension- max. N	w_2	w_3
J0520.AC0004	Zinc Plated Steel	138-150	18	52	5.2	4.1	67.5	33	35	110	36	10	68-80	15	5	1100	2500	36	19



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